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International Bureau

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g is 1-4;

h is 1-4;

R₁, R₃, R₅, R₇, R₉, and R₁₁, are independently hydrogen, halogen, alkyl, carboxyl, alkoxycarbonyl or aralkyl;

5 R₂, R₄, R₆, R₈, R₁₀ and R₁₂, are independently -(CH₂)_q-X;

q is 0-3;

X is hydrogen, halogen, alkyl, alkenyl, cycloalkyl, heterocyclyl, aryl, heteroaryl, aralkyl, heteroaralkyl, hydroxy, alkoxy, aralkoxy, heteroaralkoxy, carboxyl, alkoxycarbonyl, tetrazolyl, acyl, acylHNSO₂-, -SR₂₃, Y¹Y²N- or Y³Y⁴NCO-;

10 Y¹ and Y² are independently hydrogen, alkyl, aryl, aralkyl or heteroaralkyl, or one of Y¹ and Y²

is hydrogen or alkyl and the other of Y¹ and Y² is acyl or aroyl;

Y³ and Y⁴ are independently hydrogen, alkyl, aryl, aralkyl or heteroaralkyl;

Z is R₂₁O₂C-, R₂₁OC-, cyclo-imide, -CN, R₂₁O₂SHNCO-, R₂₁O₂SHN-, (R₂₁)₂NCO-, R₂₁O- 2,4-thiazolidinedionyl, or tetrazolyl; and

15 R₁₉ and R₂₁ are independently hydrogen, alkyl, aryl, cycloalkyl, or aralkyl;

R₁₃, R₁₇, R₁₉ and R₂₃ are independently R₂₂OC-, R₂₂NHOC-, hydrogen, alkyl, aryl, heteroaryl, cycloalkyl, heterocyclyl, heteroaralkyl, or aralkyl;

R₁₄, R₁₅, R₁₆, R₁₈ and R₂₀ are independently hydrogen, alkyl, aralkyl, carbonyl, or alkoxycarbonyl;

20 or R₁₄, and R₁₅ taken together with the carbon and nitrogen atoms through which they are linked form a 5 or 6-membered azaheterocyclyl group; or

when a is 2-4, then vicinal R₁ radicals taken together with the carbon atoms to which the R₁ radicals are linked form an ethylene group; or

when b is 2-4, then vicinal R₃ radicals taken together with the carbon atoms to which the R₃

25 radicals are linked form an ethylene group; or


when c is 2-4, then vicinal R₅ radicals taken together with the carbon atoms to which the R₅ radicals are linked form an ethylene group; or


when d is 2-5, then vicinal R₇ radicals taken together with the carbon atoms to which the R₇ radicals are linked form an ethylene group; or


30 when e is 2-4, then vicinal R₉ radicals taken together with the carbon atoms to which the R₉ radicals are linked form an ethylene group; or

when f is 2-6, then vicinal R_{11} radicals taken together with the carbon atoms to which the R_{11} radicals are linked form an ethylene group; and

R_{22} is hydrogen, alkyl, aryl, heteroaryl, cycloalkyl, heterocyclyl, heteroaralkyl, or aralkyl; or a pharmaceutically acceptable salt thereof, an N-oxide thereof, a hydrate thereof or a solvate thereof.

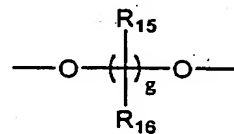
2. A compound according to claim 1 wherein  is optionally substituted aryl,

optionally substituted azaheteroaryl, or optionally substituted fused arylheterocyclenyl;  is optionally substituted aryl, optionally substituted heteroaryl, or optionally substituted fused

arylheterocyclenyl; and  is optionally substituted aryl, optionally substituted heteroaryl, optionally substituted fused arylheterocyclalkyl or optionally substituted fused arylheterocyclenyl.

3. A compound according to claim 1 wherein $a = 1$ or 2 ; R_1 and R_2 is hydrogen; A is a chemical bond; and $b = 0$.

4. A compound according to claim 1 wherein $a = 0$; A is



are hydrogen; g is 1, 2, or 3; and $b = 0$.

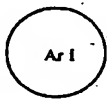
5. A compound according to claim 1 wherein $a = 0$; A is $\text{---NR}_{13}\text{---}$, $b = 1$, R_3 and R_4 are hydrogen.

6. A compound according to claim 1 wherein $a = 2$; vicinal R_1 radicals taken together with the carbon atoms to which the R_1 radicals are linked form an ethylene group; R_2 is hydrogen; A is a chemical bond; and $b = 0$.

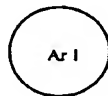
7. A compound according to claim 1 wherein $a = 1, 2$ or 3 ; R_1 and R_2 are hydrogen; A is ---O--- ; and $b = 0$.

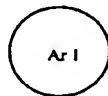
8. A compound according to claim 1 wherein $a = 1$; R_1 , R_2 , R_3 and R_4 are hydrogen; A is ---O--- ; and $b = 1$.

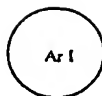
9. A compound according to claim 1 wherein $c = 1$ or 2 ; R_5 and R_6 are hydrogen or alkyl; B is a chemical bond; and $d = 0$.

10. A compound according to claim 1 wherein $c = 2$; vicinal R_5 radicals taken together with the carbon atoms to which the R_5 radicals are linked form an ethylene group; R_6 is hydrogen; B is a chemical bond; and $d=0$.
11. A compound according to claim 1 wherein $c = 0$ or 1 ; R_5 and R_6 are hydrogen; B is $-\dot{O}-$; and $d = 0$ or 1 .
12. A compound according to claim 1 wherein $c = 0$; B is $-C(O)-$ or $-S(O)_2-$; $d = 1$ and R_7 and R_8 are independently hydrogen or alkyl.
13. A compound according to claim 1 wherein $e = 0$; $f = 0$; D and E is a chemical bond; Z is $R_{21}O_2SHNCO-$, and R_{21} is phenyl.
14. A compound according to claim 1 wherein $e = 0$; $f = 0$ or 1 ; D and E is a chemical bond; Z is tetrazolyl, NH_2CO- or $-CO_2R_{21}$; and R_{21} is hydrogen or lower alkyl.
15. A compound according to claim 1 wherein $e = 0$; $f = 0$ or 1 ; D is $-O-$ or a chemical bond; E is a chemical bond; and Z is tetrazolyl, NH_2CO- or $-CO_2R_{21}$; and R_{21} is hydrogen or lower alkyl.
16. A compound according to claim 1 wherein $e = 0$; $f = 1$; D is $-O-$ or a chemical bond; E is a chemical bond; R_{11} and R_{12} are hydrogen or alkyl; and Z is tetrazolyl, NH_2CO- or $-CO_2R_{21}$; and R_{21} is hydrogen or lower alkyl.
17. A compound according to claim 1 wherein $e = 2$, then vicinal R_9 radicals taken together with the carbon atoms to which the R_9 radicals are linked form an ethylene group; $f = 0$; D and E is a chemical bond; and Z is $-CO_2R_{21}$; and R_{21} is hydrogen.
18. A compound according to claim 1 wherein $e = 0$; $f = 3$; D is $-O-$; E is a chemical bond; R_{11} and R_{12} are hydrogen or alkyl, or at least one of R_{11} is carboxyl or alkoxycarbonyl; Z is tetrazolyl, or $-CO_2R_{21}$; and R_{21} is hydrogen or lower alkyl.
19. A compound according to claim 1 wherein $e = 0$; $f = 1, 2$, or 3 ; D is $-C(O)-$; E is a chemical bond; R_{11} and R_{12} are hydrogen or alkyl; Z is tetrazolyl or $-CO_2R_{21}$; and R_{21} is hydrogen or lower alkyl.
20. A compound according to claim 1 wherein  is an optionally substituted quinolinyl, quinoxalinyl, quinazolinyl, isoquinolinyl, *N*-alkyl-quinolin-4-onyl, quinazolin-4-onyl, benzoxazolyl, benzimidazolyl, benzothiazolyl, benzofuranyl, benzothiophenyl, indolinyl, oxazolyl, thiazolyl, oxadiazolyl, isoxazolyl, imidazolyl, pyrazol-yl, thiadiazolyl, triazolyl, pyridyl, pyrimidinyl, pyrazinyl, pyridazinyl, phenyl, or naphthalenyl group, wherein the substituent is a

ring system substituent as defined herein, more preferably a substituent selected from the group consisting of phenyl, substituted-phenyl, thienyl, substituted thienyl, cycloalkyl, lower alkyl, branched alkyl, fluoro, chloro, alkoxy, aralkyloxy, trifluoromethyl and trifluoromethyloxy.



21. A compound according to claim 1 wherein  is unsubstituted quinolin-2-yl, 3-substituted quinolin-2-yl, 4-substituted quinolin-2-yl, 6-substituted quinolin-2-yl or 7 substituted quinolin-2-yl; an unsubstituted quinoxalin-2-yl, 3-substituted quinoxalin-2-yl, 6-substituted quinoxalin-2-yl or 3,6-disubstituted quinoxalin-2-yl; unsubstituted quinazolin-2-yl, 4-substituted quinazolin-2-yl or 6-substituted quinazolin-2-yl; unsubstituted isoquinolin-3-yl, 6-substituted isoquinolin-3-yl or 7-substituted isoquinolin-3-yl; 3-substituted-quinazolin-4-on-2-yl; *N*-substituted quinolin-4-on-2-yl; 2-substituted-oxazol-4-yl or 2,5 disubstituted-oxazol-4-yl; 4-substituted oxazol-2-yl or 4,5-disubstituted-oxazol-2-yl; 2-substituted thiazol-4-yl or 2,5-disubstituted thiazol-4-yl; 4-substituted thiazol-2-yl or 4,5-disubstituted-thiazol-2-yl; 5-substituted-[1,2,4]oxadiazol-3-yl; 3-substituted-[1,2,4] oxadiazol-5-yl; 5-substituted-imidazol-2-yl or 3,5-disubstituted-imidazol-2-yl; 2-substituted-imidazol-5-yl or 2,3-disubstituted-imidazol-5-yl; 3-substituted-isoxazol-5-yl; 5-substituted-isoxazol-3-yl; 5-substituted-[1,2,4] thiadiazol-3-yl; 3-substituted-[1,2,4]-thiadiazol-5-yl; 2-substituted-[1,3,4]-thiadiazol-5-yl; 2-substituted-[1,3,4]-oxadiazol-5-yl; 1-substituted-pyrazol-3-yl; 3-substituted-pyrazol-5-yl; 3-substituted-[1,2,4]-triazol-5-yl; 1-substituted-[1,2,4]-triazol-3-yl; 3-substituted pyridin-2-yl, 5-substituted pyridin-2-yl, 6-substituted pyridin-2-yl or 3,5-disubstituted pyridin-2-yl; 3-substituted pyrazin-2-yl, 5-substituted pyrazin-2-yl, 6-substituted pyrazin-2-yl or 3,5 disubstituted-pyrazin-2-yl; 5-substituted pyrimidin-2-yl or 6-substituted-pyrimidin-2-yl; 6-substituted-pyridazin-3-yl or 4,6-disubstituted-pyridazin-3-yl; unsubstituted naphthalen-2-yl, 3-substituted naphthalen-2-yl, 4-substituted naphthalen-2-yl, 6-substituted naphthalen-2-yl or 7 substituted naphthalen-2-yl; 2-substituted phenyl, 4-substituted phenyl or 2,4-disubstituted phenyl; unsubstituted -benzothiazol-2-yl or 5-substituted-benzothiazol-2-yl; unsubstituted benzoxazol-2yl or 5-substituted-benzoxazol-2yl; unsubstituted -benzimidazol-2-yl or 5-substituted-benzimidazol-2-yl; unsubstituted -thiophen-2yl, 3-substituted -thiophen-2yl, 6-substituted -thiophen-2yl or 3,6-disubstituted-thiophen-2yl; unsubstituted -benzofuran-2-y, 3-substituted-benzofuran-2-yl, 6-substituted-benzofuran-2-yl or 3,6-disubstituted-benzofuran-2-yl; 3-substituted-benzofuran-6-yl or 3,7-disubstituted-benzofuran-6-yl, wherein the substituent is a ring system substituent.



22 A compound according to claim 21 wherein is substituted by a substituent selected from the group consisting of phenyl, substituted-phenyl, thienyl, substituted thienyl, cycloalkyl, lower alkyl, branched alkyl, fluoro, chloro, alkoxy, aralkyloxy, trifluoromethyl and trifluoromethoxy.

5 23. A compound according to claim 1 wherein R_1 and R_2 are hydrogen; $a = 1$; A is $-O-$; and $b = 0$.

24. A compound according to claim 1 wherein R_1 and R_2 are hydrogen; $a = 2$; A is $-O-$; and $b = 0$.

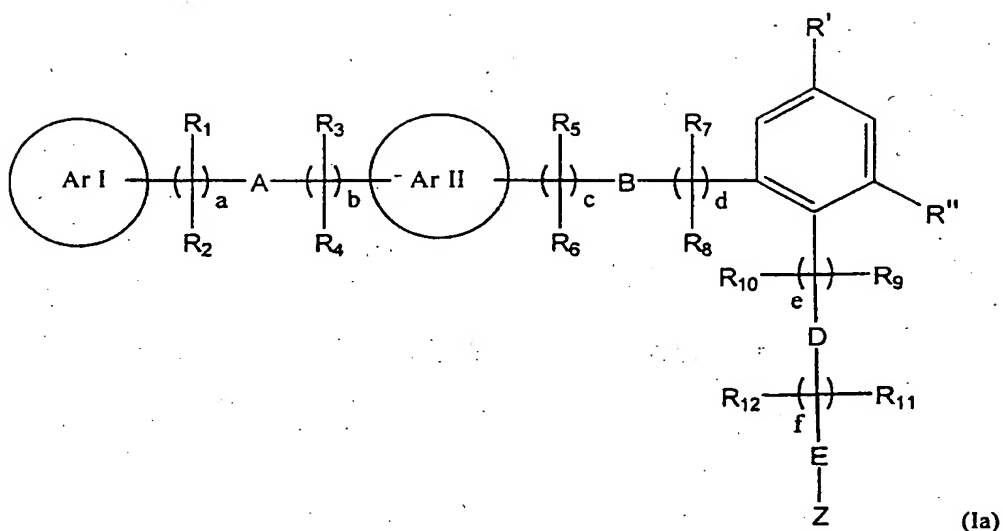
10 25. A compound according to claim 1 wherein $a = 0$; A is $-O-$ or $-NR_{13}-$; R_{13} is hydrogen or alkyl; R_3 and R_4 are both independently hydrogen; and $b = 1$.

26. A compound according to claim 1 wherein $a = 0$; A is $-O-$ or $-NR_{13}-$; R_{13} is hydrogen or

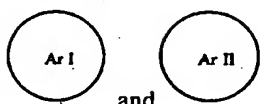


alkyl; R_3 and R_4 are both independently hydrogen; $b = 1$; and is 3-substituted quinolin-2-yl, 4-substituted quinolin-2-yl, 6-substituted quinolin-2-yl, 7 substituted quinolin-2-yl, unsubstituted quinoxalin-2-yl, 3-substituted quinoxalin-2-yl, 6-substituted quinoxalin-2-yl, 3,6-disubstituted quinoxalin-2-yl, unsubstituted quinazolin-2-yl, 4-substituted quinazolin-2-yl, 6-substituted quinazolin-2-yl, unsubstituted isoquinolin-3-yl, 6-substituted isoquinolin-3-yl, 7-substituted isoquinolin-3-yl, 4-substituted oxazol-2-yl, 4,5-disubstituted-oxazol-2-yl, 4-substituted-thiazol-2-yl, 4,5-disubstituted-thiazol-2-yl, 5-substituted -imidazol-2-yl, 3,5-disubstituted-imidazol-2-yl, 1-substituted-pyrazol-3-yl, 3-substituted-pyrazol-5-yl, 3-substituted pyridin-2-yl, 5-substituted pyridin-2-yl, 6-substituted pyridin-2-yl or 3,5-disubstituted pyridin-2-yl, 3-substituted pyrazin-2-yl, 5-substituted pyrazin-2-yl, 6-substituted pyrazin-2-yl, 3,5-disubstituted-pyrazin-2-yl, 5-substituted pyrimidin-2-yl, 6-substituted-pyrimidin-2-yl, 6-substituted-pyridazin-3-yl, 4,6-disubstituted-pyridazin-3-yl, unsubstituted-benzothiazol-2-yl, 5-substituted-benzothiazol-2-yl, unsubstituted-benzoxazol-2-yl, 5-substituted-benzoxazol-2-yl, unsubstituted benzimidazol-2-yl, 5-substituted-benzimidazol-2-yl, 3-substituted-benzofuran-6-yl or 3,7-disubstituted-benzofuran-6-yl.

27. A compound of formula (Ia)



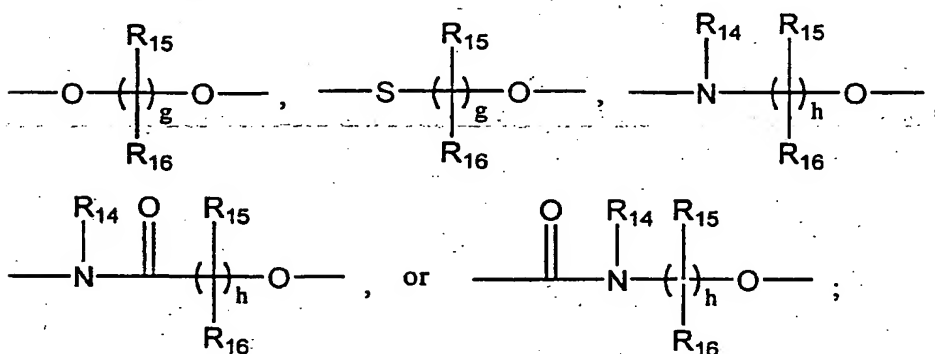
wherein:



and

are independently aryl, fused arylcycloalkenyl, fused arylcycloalkyl, fused fused arylheterocyclyl, heteroaryl, fused heteroaryl cycloalkenyl, fused fused heteroaryl heterocyclenyl, or fused heteroaryl heterocyclyl;

A is -O-, -S-, -SO-, -SO₂-, -NR₁₃-, -C(O)-, -N(R₁₄)C(O)-, -C(O)N(R₁₅)-, -N(R₁₄)C(O)N(R₁₅)-, -C(R₁₄)=N-, a chemical bond,



10 B is -O-, -S-, -SO-, -SO₂-, -NR₁₇-, a chemical bond, ethynylene, -C(O)-, -N(R₁₈)C(O)-, or -C(O)NR₁₈-;

D is $-O-$, $-S-$, $-NR_{19}-$, a chemical bond, ethynylene, $-N(R_{20})C(O)-$, $-C(O)-$, or $-C(O)N(R_{20})-$;

E is a chemical bond or an ethylene group;

a is 0-4;

15 b is 0-4;

c is 0-4;

- d is 0-5;
 e is 0-4;
 f is 0-6;
 g is 1-4;
 5 h is 1-4;
 R_1, R_3, R_5, R_7, R_9 , and R_{11} , are independently hydrogen, halogen, alkyl, carboxyl, alkoxycarbonyl or aralkyl;
 $R_2, R_4, R_6, R_8, R_{10}$ and R_{12} , are independently $-(CH_2)_q-X$;
 q is 0-3;
 10 X is hydrogen, halogen, alkyl, alkenyl, cycloalkyl, heterocyclyl, aryl, heteroaryl, aralkyl, heteroaralkyl, hydroxy, alkoxy, aralkoxy, heteroaralkoxy, carboxyl, alkoxycarbonyl, tetrazolyl, acyl, acylHNSO₂-, -SR₂₃, Y¹Y²N- or Y³Y⁴NCO-;
 Y¹ and Y² are independently hydrogen, alkyl, aryl, aralkyl or heteroaralkyl, or one of Y¹ and Y² is hydrogen or alkyl and the other of Y¹ and Y² is acyl or aroyl;
 15 Y³ and Y⁴ are independently hydrogen, alkyl, aryl, aralkyl or heteroaralkyl;
 Z is R₂₁O₂C-, R₂₁OC-, cyclo-imide, -CN, R₂₁O₂SHNCO-, R₂₁O₂SHN-, (R₂₁)₂NCO-, R₂₁O- 2,4-thiazolidinedionyl, or tetrazolyl;
 R' and R'' are ring system substituents;
 R₁₉ and R₂₁ are independently hydrogen, alkyl, aryl, cycloalkyl, or aralkyl;
 20 R₁₃, R₁₇, R₁₉ and R₂₃ are independently R₂₂OC-, R₂₂NHOC-, hydrogen, alkyl, aryl, heteroaryl, cycloalkyl, heterocyclyl, heteroaralkyl, or aralkyl;
 R₁₄, R₁₅, R₁₆, R₁₈ and R₂₀ are independently hydrogen, alkyl, aralkyl, carbonyl, or alkoxycarbonyl;
 or R₁₄, and R₁₅ taken together with the carbon and nitrogen atoms through which they are linked
 25 form a 5 or 6-membered azaheterocyclyl group; or
 when a is 2-4, then vicinal R₁ radicals taken together with the carbon atoms to which the R₁ radicals are linked form an ethylene group; or
 when b is 2-4, then vicinal R₃ radicals taken together with the carbon atoms to which the R₃ radicals are linked form an ethylene group; or
 30 when c is 2-4, then vicinal R₅ radicals taken together with the carbon atoms to which the R₅ radicals are linked form an ethylene group; or

when d is 2-5, then vicinal R₇ radicals taken together with the carbon atoms to which the R₇ radicals are linked form an ethylene group; or

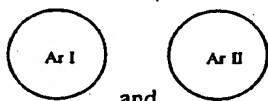
when e is 2-4, then vicinal R₉ radicals taken together with the carbon atoms to which the R₉ radicals are linked form an ethylene group; or

5 when f is 2-6, then vicinal R₁₁ radicals taken together with the carbon atoms to which the R₁₁ radicals are linked form an ethylene group; and

R₂₂ is hydrogen, alkyl, aryl, heteroaryl, cycloalkyl, heterocyclyl, heteroaralkyl, or aralkyl; or a pharmaceutically acceptable salt thereof, an N-oxide thereof, a hydrate thereof or a solvate thereof.

28. A compound according to claim 27

wherein



and are independently aryl, fused arylcycloalkenyl, fused arylcycloalkyl, fused arylheterocyclenyl, fused arylheterocyclyl, heteroaryl, fused heteroaryl cycloalkenyl, fused heteroaryl cycloalkyl, fused heteroaryl heterocyclenyl, or fused heteroaryl heterocyclyl;

c+d = 1 or 2;

B is —O—;

R_5, R_6, R_7, R_8 are independently hydrogen;

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e = 0;
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20    f = 0;
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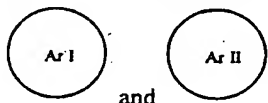
D and E are a chemical bond;

Z is $R_{21}O_2C-$, $R_{21}OC-$, cyclo-imide, $-CN$, $R_{21}O_2SHNCO-$, $R_{21}O_2SHN-$, $(R_{21})_2NCO-$, $R_{21}O-$, 2,4-thiazolidinedionyl, or tetrazolyl;

R' is lower alkyl, halo, alkoxy, aryloxy or aralkyl; and

25 R'' is lower alkyl or halo.

29. A compound according to claim 27 wherein



and are independently aryl, fused arylcycloalkenyl, fused arylcycloalkyl, fused arylheterocyclenyl, fused arylheterocyclyl, heteroaryl, fused heteroaryl cycloalkenyl, fused heteroaryl cycloalkyl, fused heteroaryl heterocyclenyl, or fused heteroaryl heterocyclyl;

$c+d = 1$ or 2 ;

B is $-O-$;

R_5, R_6, R_7, R_8 are independently hydrogen;

$e = 0$;

5 $f = 0$;

D and E are a chemical bond;

Z is $-CO_2H$;

R' is lower alkyl, halo, alkoxy, aryloxy or aralkyl; and

R'' is lower alkyl or halo.

10

30. A compound according to claim 27 wherein

$a = 0-2$;

$b = 0-1$;

A is $-O-$ or $-NR_{13}-$;

15 $c+d = 1$ or 2 ;

B is $-O-$;

$R_1, R_2, R_3, R_4, R_5, R_6, R_7$, and R_8 are independently hydrogen;

R_{13} is hydrogen, $R_{22}OC-$, or alkyl;

$e = 0$;

20 $f = 0$;

D and E are a chemical bond;

Z is $-CO_2H$;

R' is lower alkyl, halo, alkoxy, aryloxy or aralkyl; and

R'' is lower alkyl or halo.

25

31. A compound according to claim 27 wherein

$a = 1$ or 2 ;

A is $-O-$;

$b = 0$;

30 R_1, R_2, R_7 and R_8 are independently hydrogen;



is optionally substituted phenyl;

c = 0;

B is -O-;

d = 1;

5 e = 0;

f = 0;

D and E are a chemical bond;

R' is hydrogen, halo or benzyloxy;

R'' is lower alkyl, preferably methyl;

10 Z is -CO₂H.

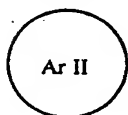
32. A compound according to claim 27 wherein:

a = 1 or 2;

A is -O-;

15 b = 0;

R₁, R₂, R₅ and R₆ are independently hydrogen;



is optionally substituted phenyl;

c = 1;

B is -O-;

20 d = 0;

e = 0;

f = 0;

D and E are a chemical bond;

R' is hydrogen, halo or benzyloxy;

25 R'' is lower alkyl, preferably methyl;

Z is -CO₂H.

33. A compound according to claim 27 wherein:

a = 1 or 2;

A is -O-;

b = 0;

R₁, R₂, R₇, R₈, R₁₁ and R₁₂ are independently hydrogen;



is optionally substituted phenyl;

c = 0;

B is -O-;

d = 1;

e = 0;

10 f = 1;

D and E are a chemical bond;

R' is halo;

R'' is lower alkyl, preferably methyl;

Z is -CO₂H.

15

34. A compound according to claim 27 wherein:

a = 1;

A is -O-;

b = 0;

20 c = 0-1;

B is -O-;

d = 0 or 1, wherein c+d = 1 or 2;

e = 0;

f = 0;

25 D and E are a chemical bond;

R' is hydrogen, aralkoxy, or halo;

R'' is lower alkyl, preferably methyl;

Z is -CO₂H.

30 35. A compound according to claim 27 wherein:

a = 1;

A is -O-;

b = 0;

c = 0;

5 B is -O-;

d = 1;

e = 0;

f = 0;

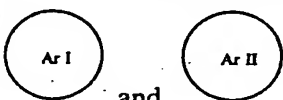
D and E are a chemical bond;

10 R' is hydrogen;

R'' is lower alkyl;

Z is -CO₂H.

36. A compound according to claim 27 wherein:

15  are aryl or heteroaryl;

a = 1;

A is -O-;

b = 0;

c = 0;

20 B is -O-;

d = 1;

e = 0;

f = 0;

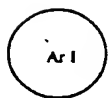
D and E are a chemical bond;

25 R' is hydrogen;

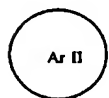
R'' is lower alkyl;

Z is -CO₂H.

37. A compound according to claim 27 wherein:



is optionally substituted azaheteroaryl;



is optionally substituted phenyl;

a = 1;

A is -O-;

5 b = 0;

c = 0;

B is -O-;

d = 1;

e = 0;

10 f = 0;

D and E are a chemical bond;

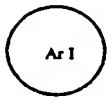
R' is hydrogen;

R'' is lower alkyl;

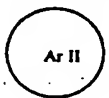
Z is CO₂H.

15

38. A compound according to claim 27 wherein:



is optionally substituted quinoliny, or a 5-membered heteroaryl group wherein the heteroaryl group is substituted by optionally substituted phenyl or optionally substituted cyclohexyl;



20 is optionally substituted phenyl;

a = 1;

A is -O-;

b = 0;

c = 0;

25 B is -O-;

d = 1;

e = 0;

f = 0;

D and E are a chemical bond;

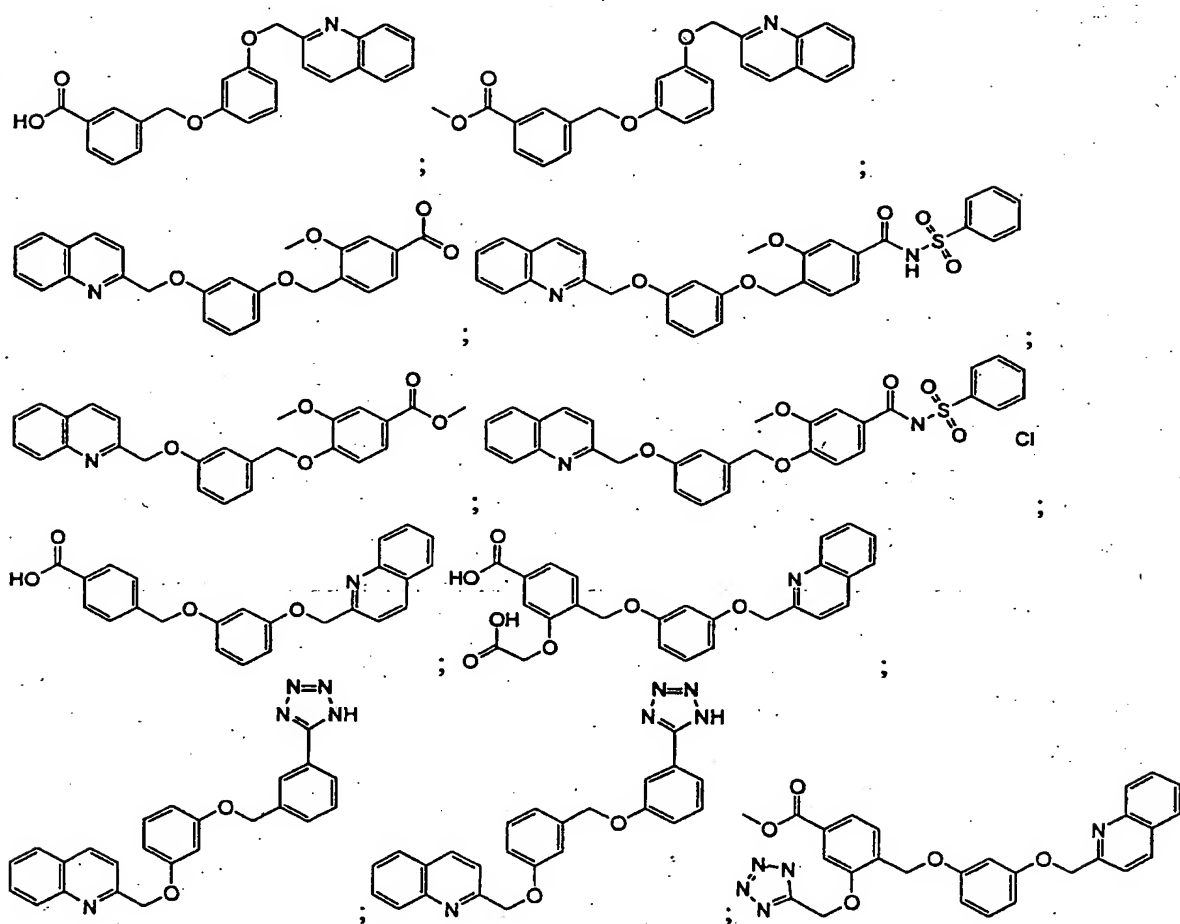
R' is hydrogen;

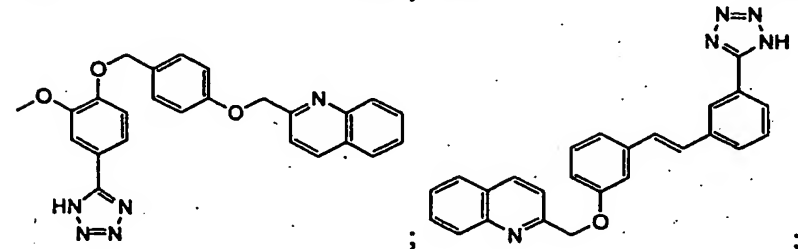
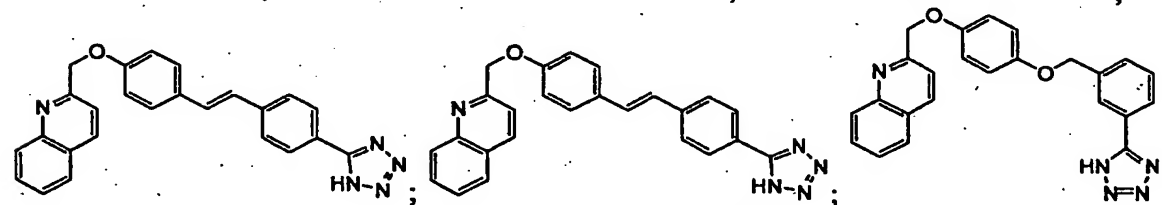
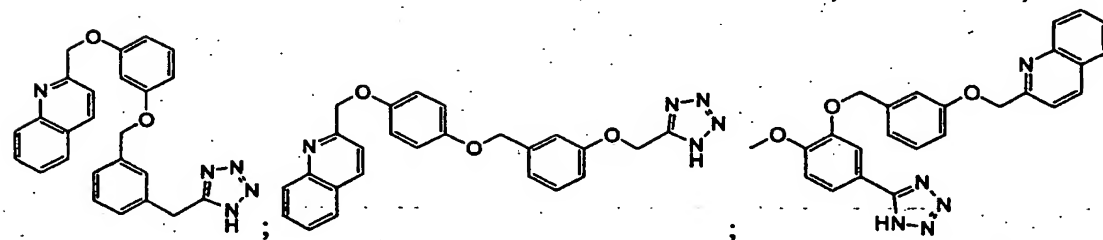
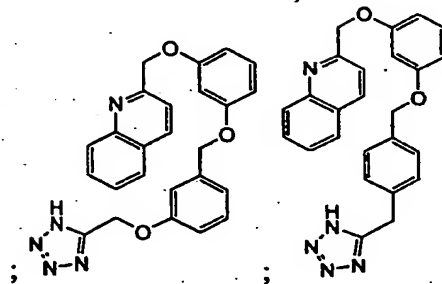
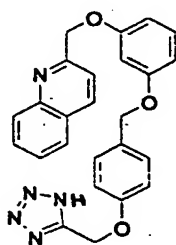
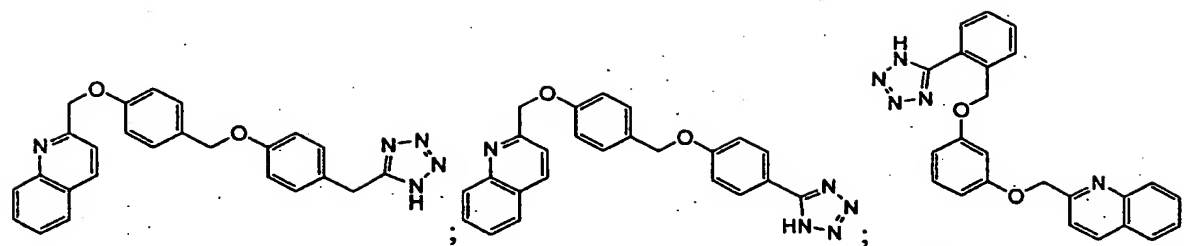
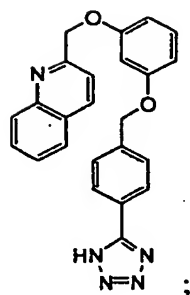
5 R'' is lower alkyl;

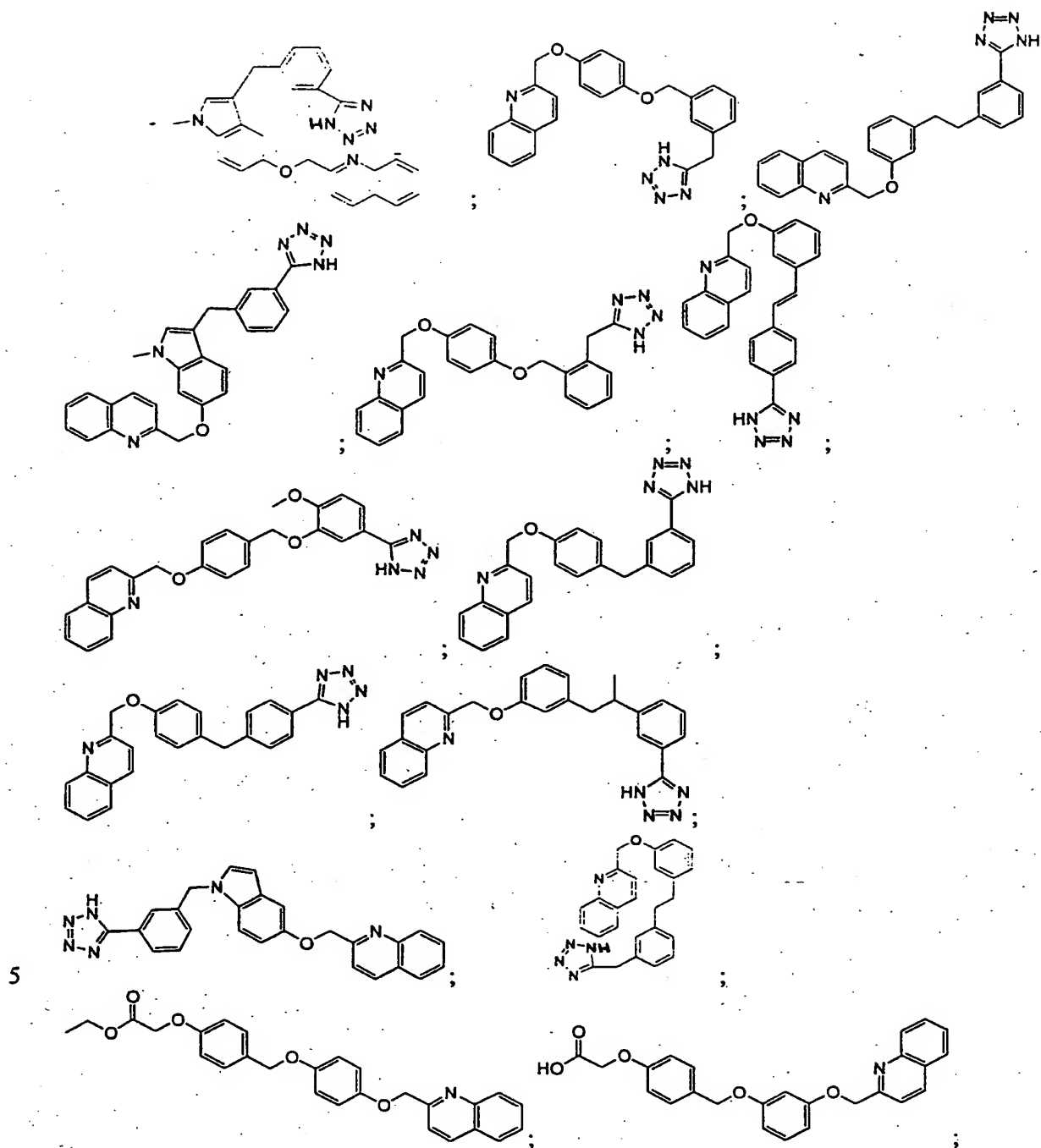
Z is CO₂H.

39. A compound according to claim 1 selected from the group

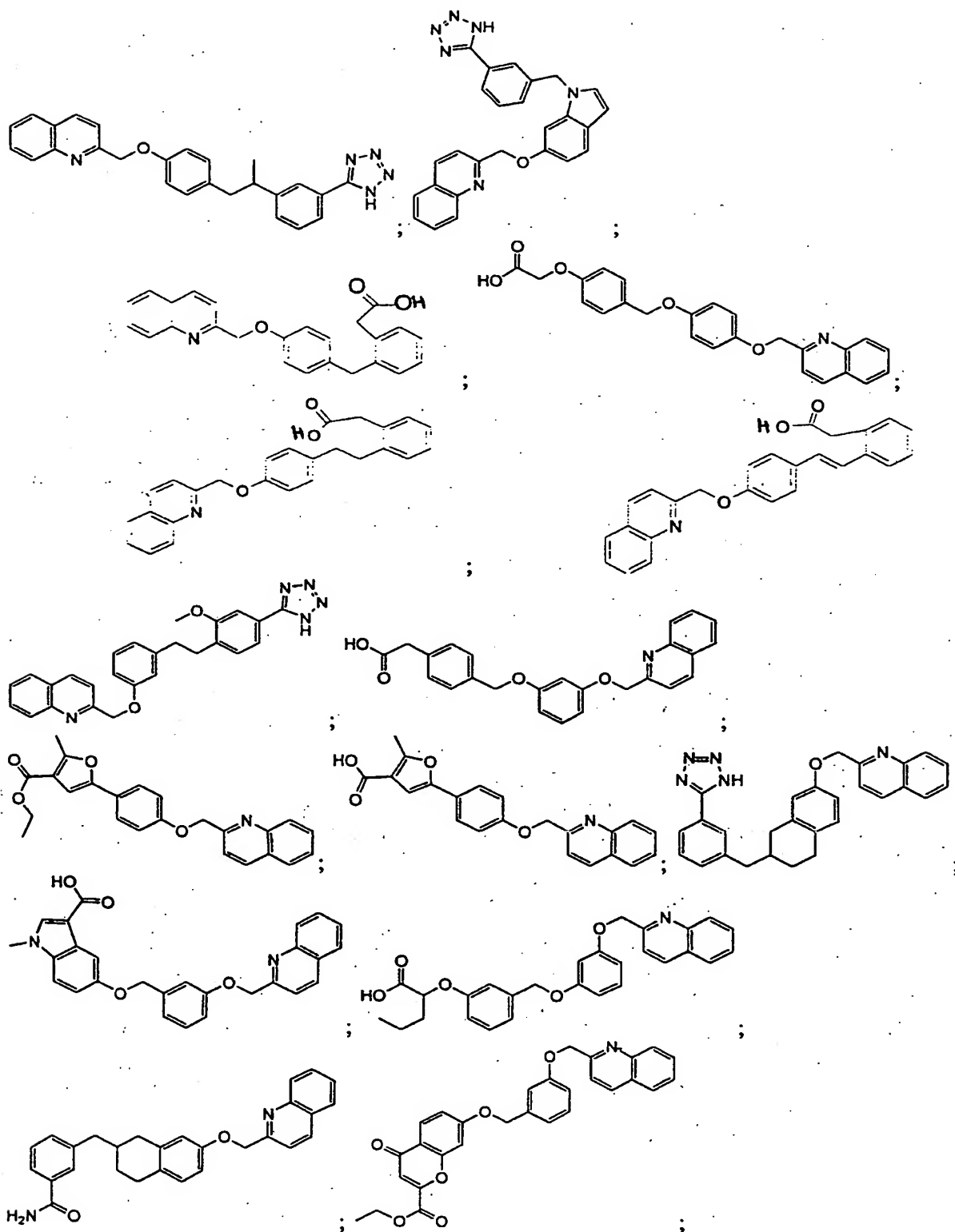
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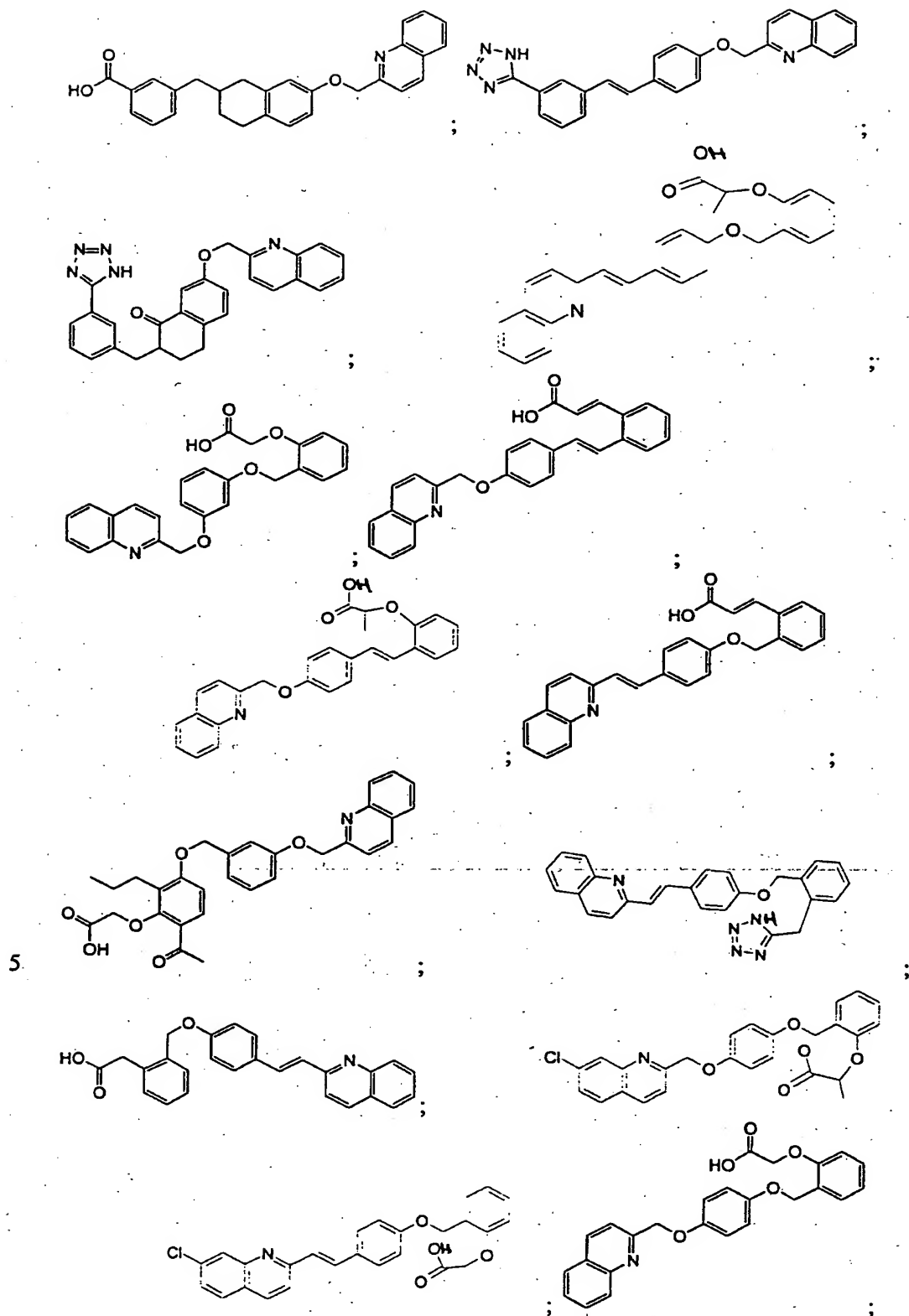


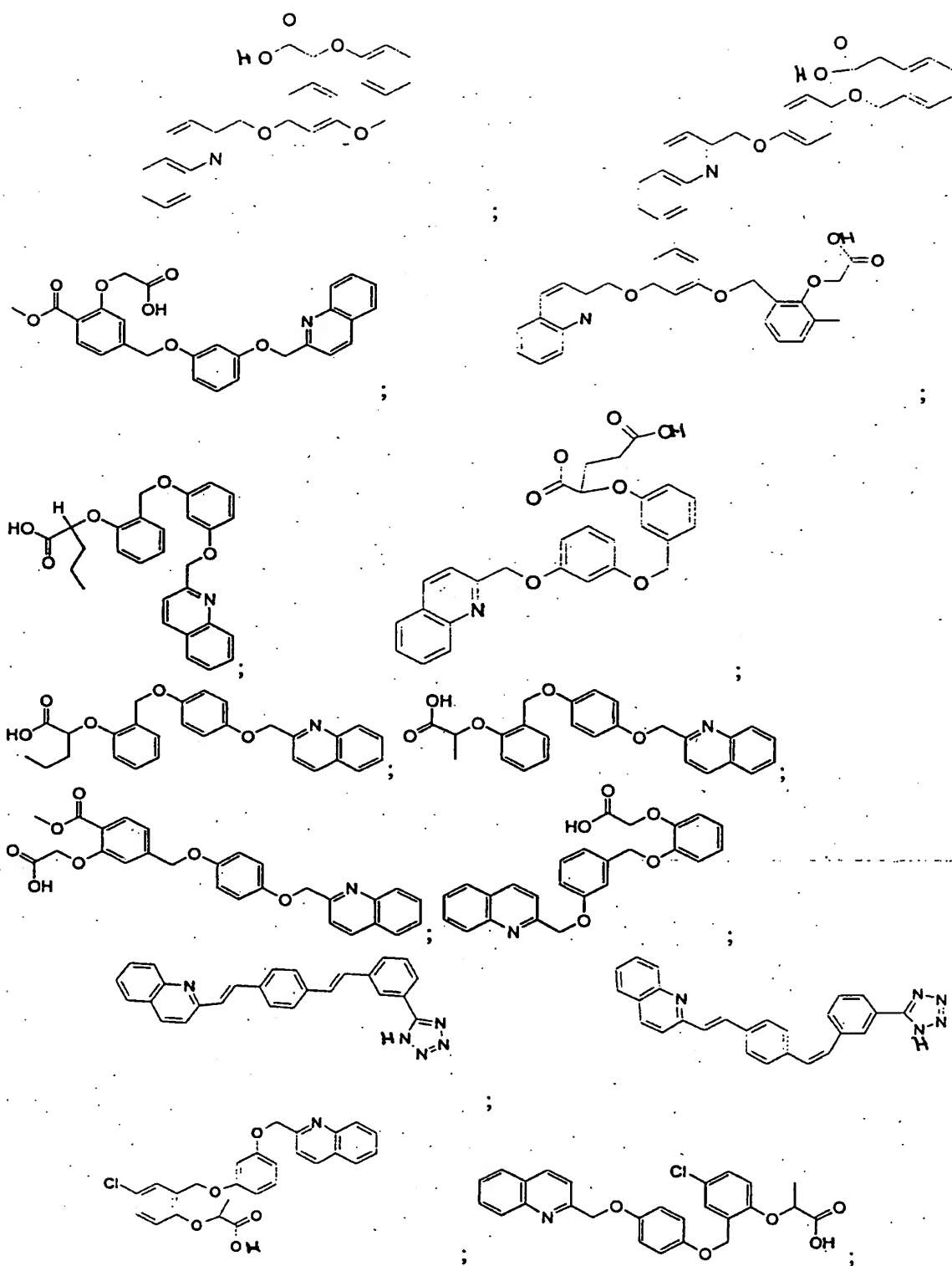


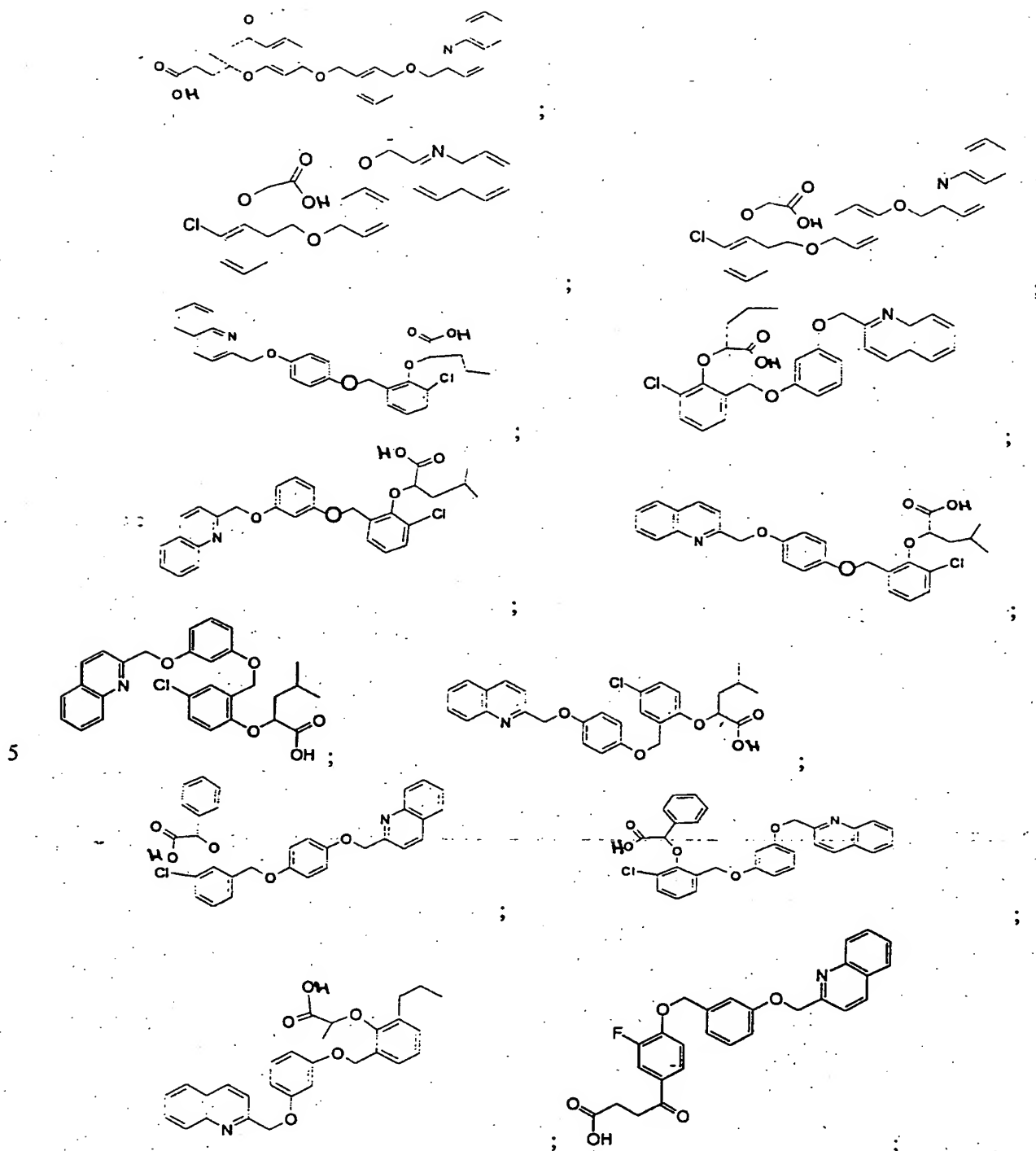


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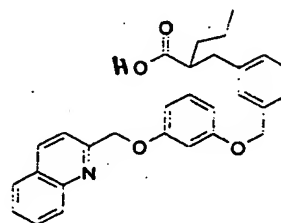
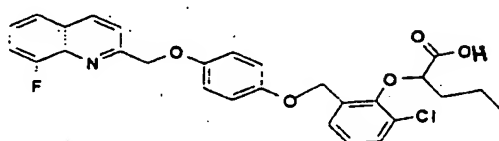
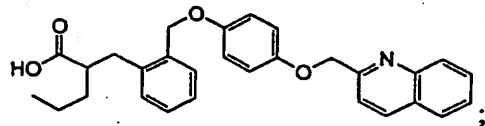
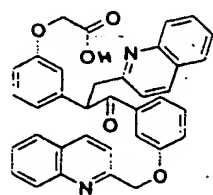
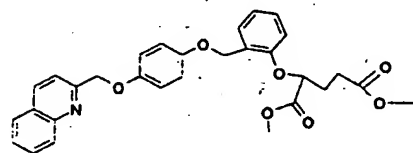
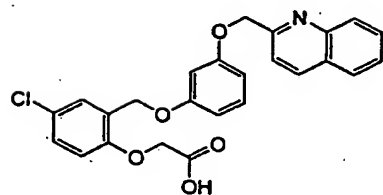
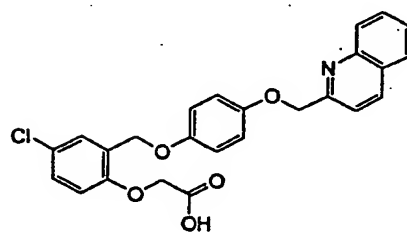
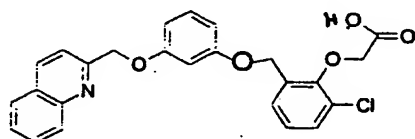
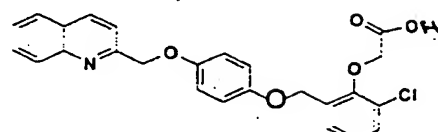
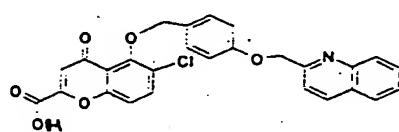
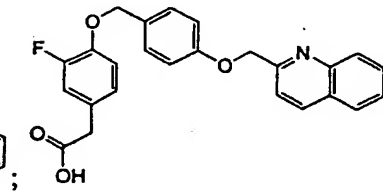
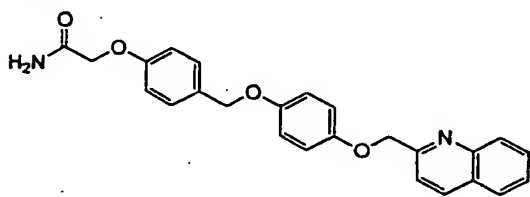
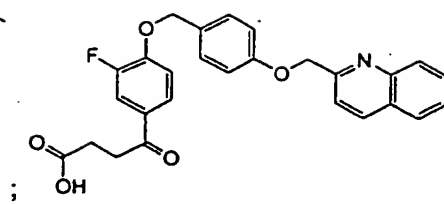
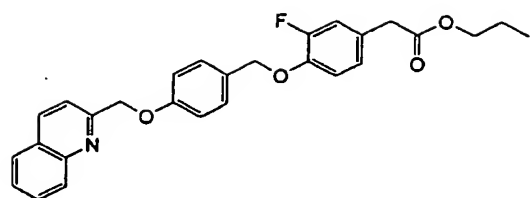


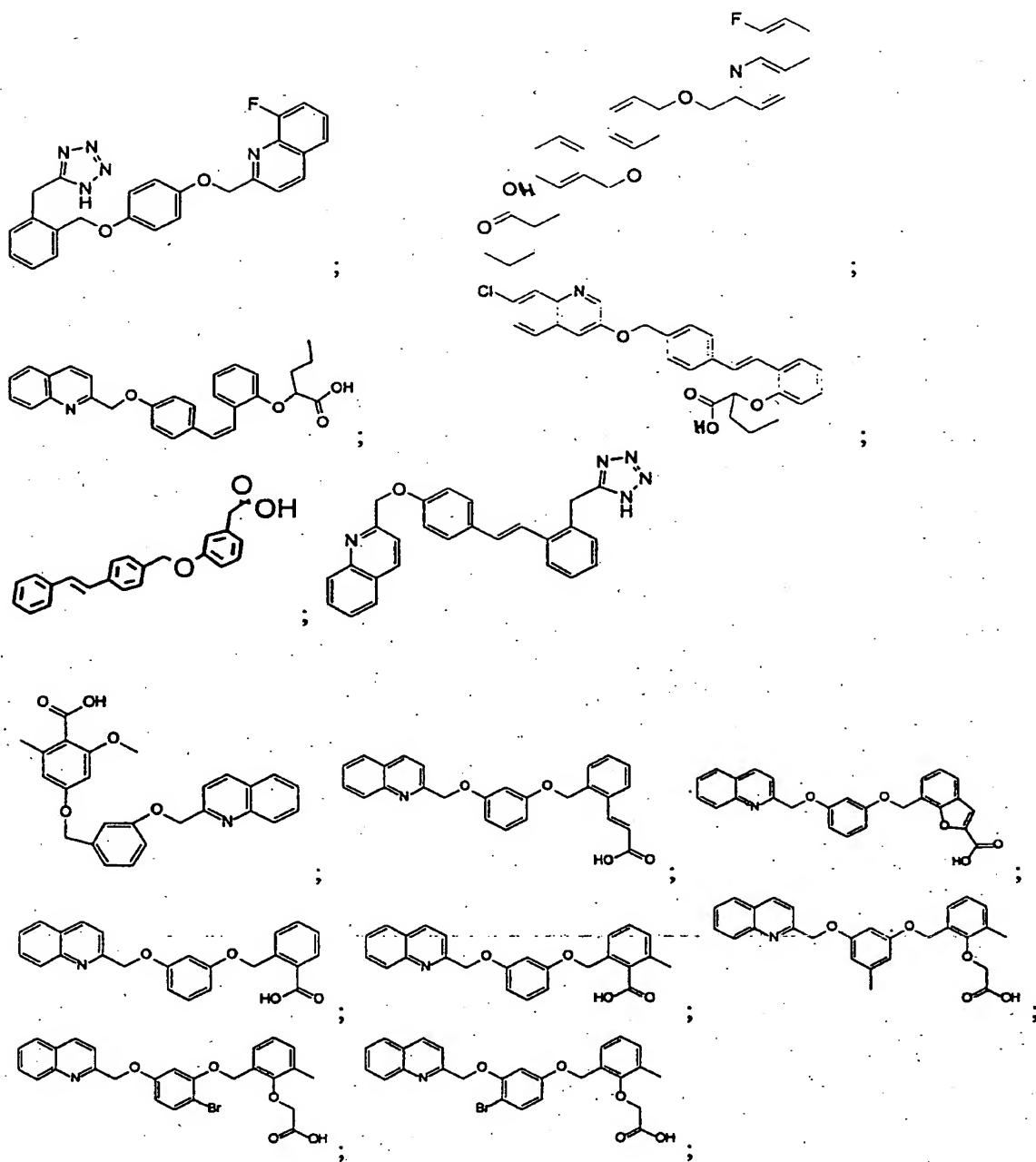




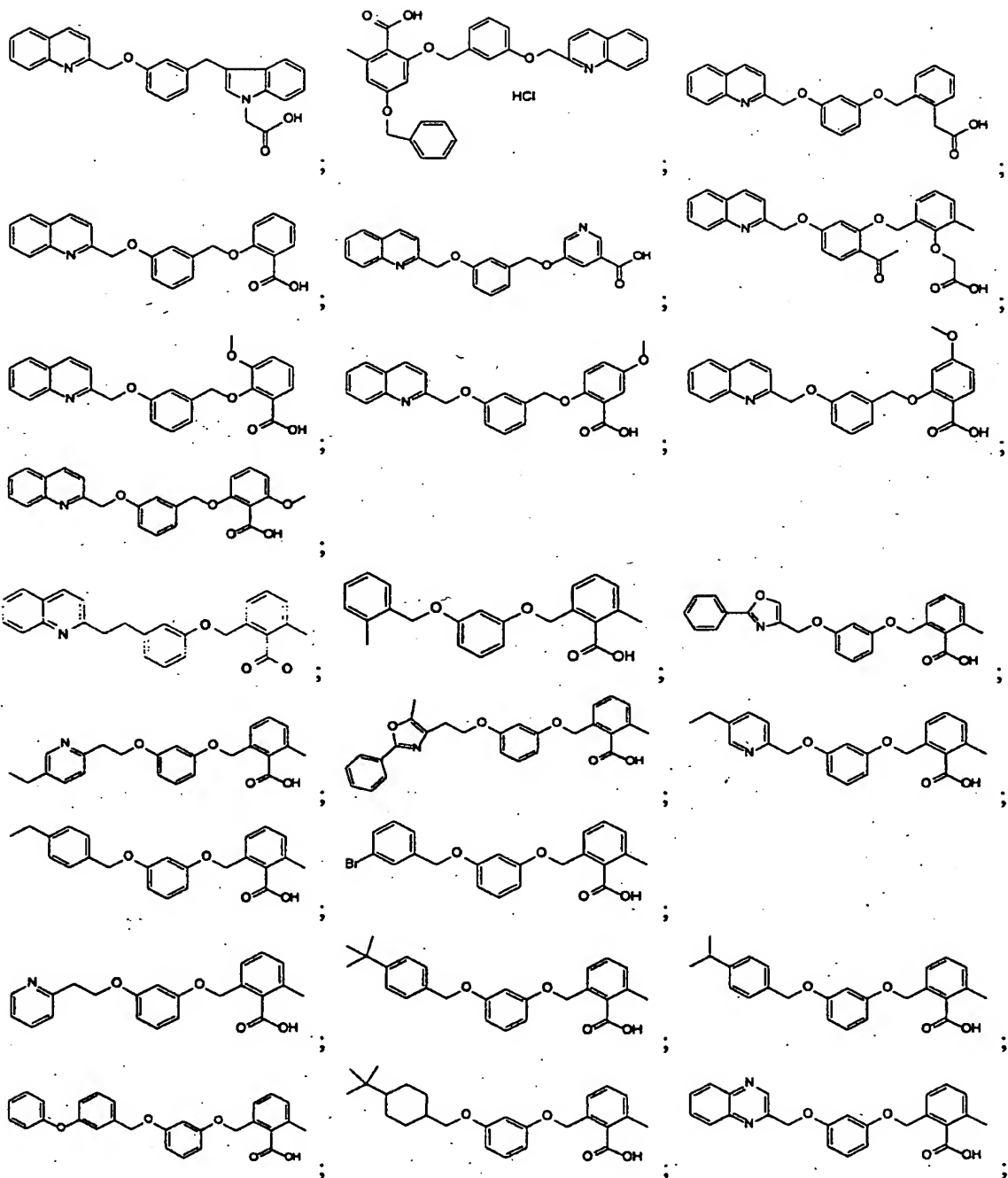


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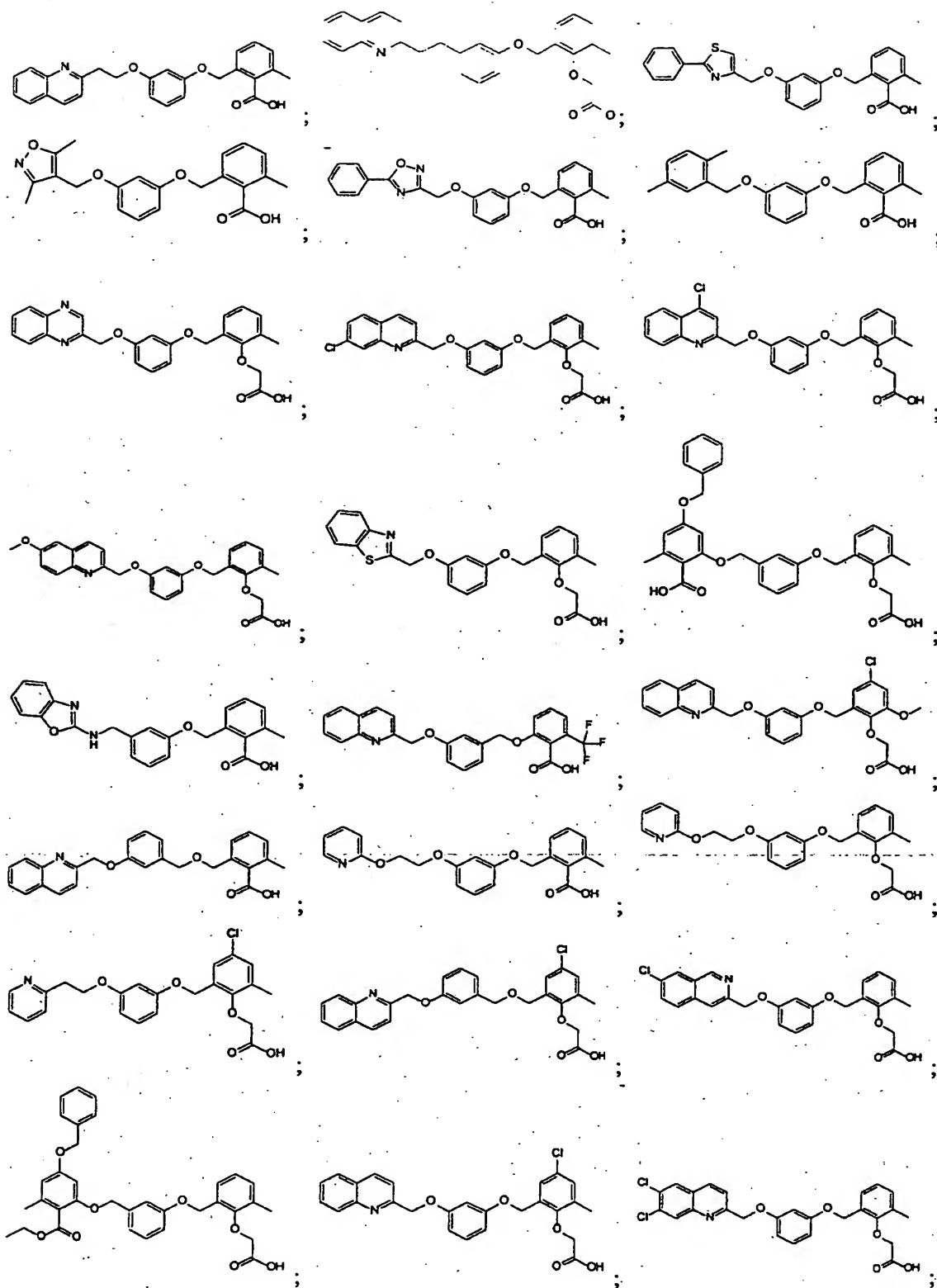




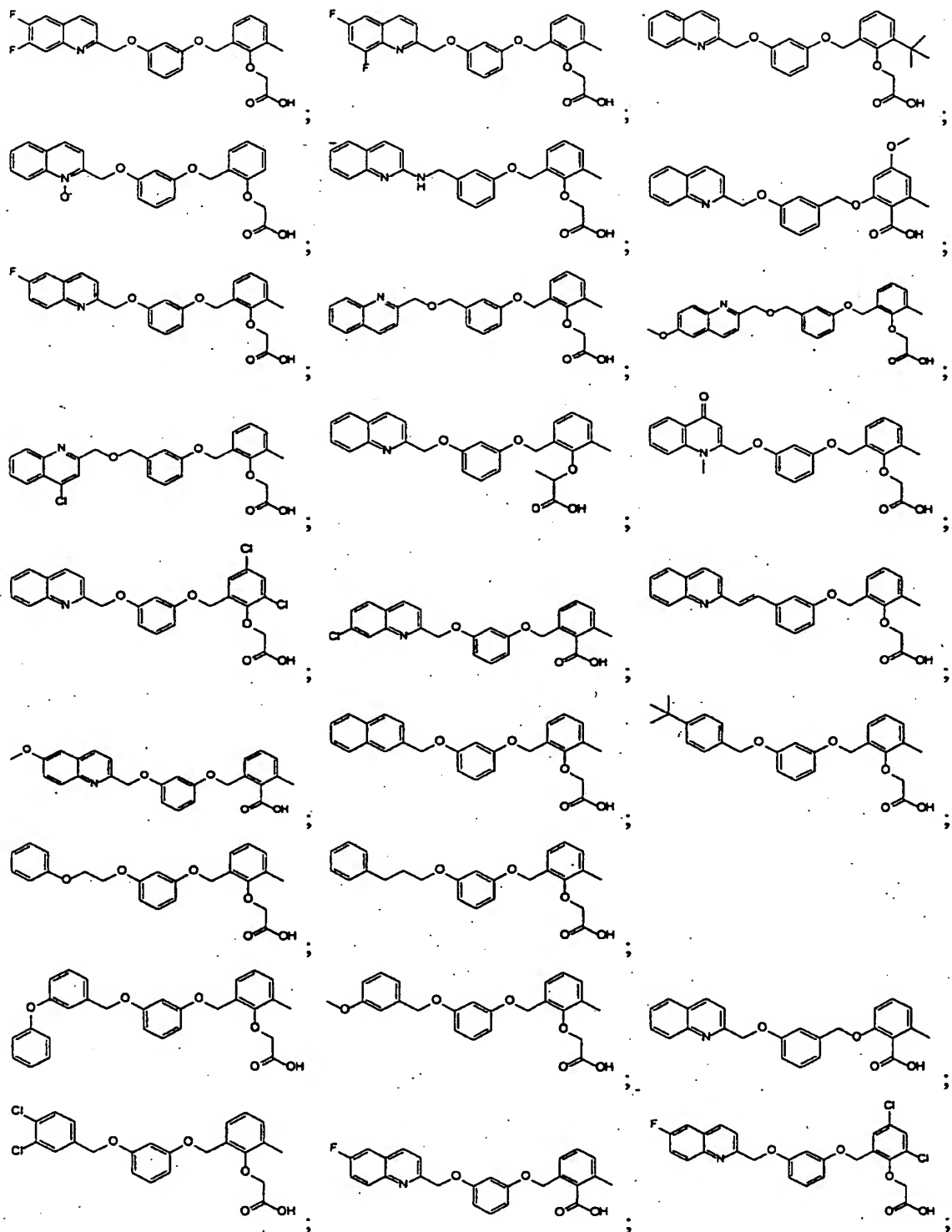
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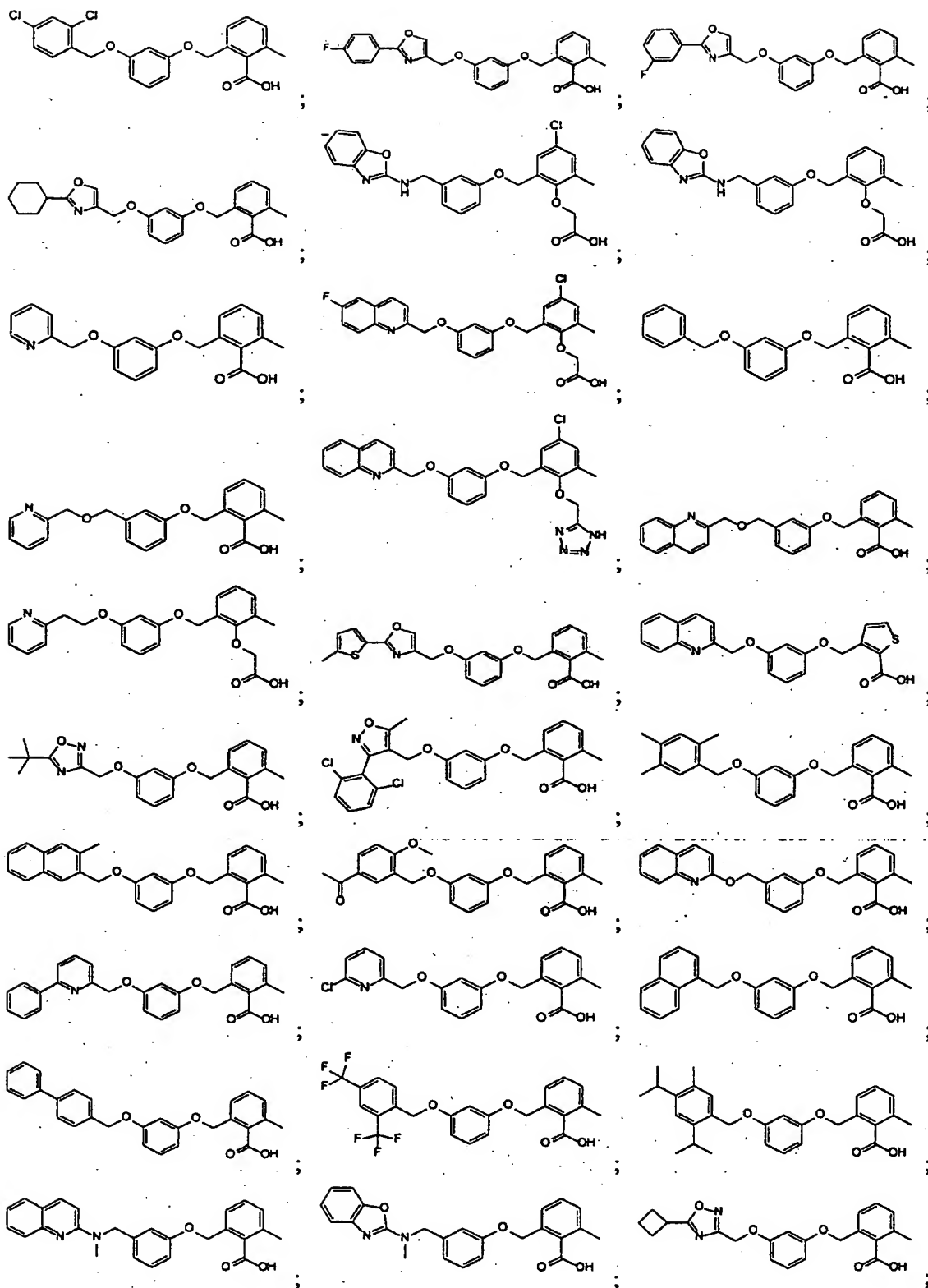


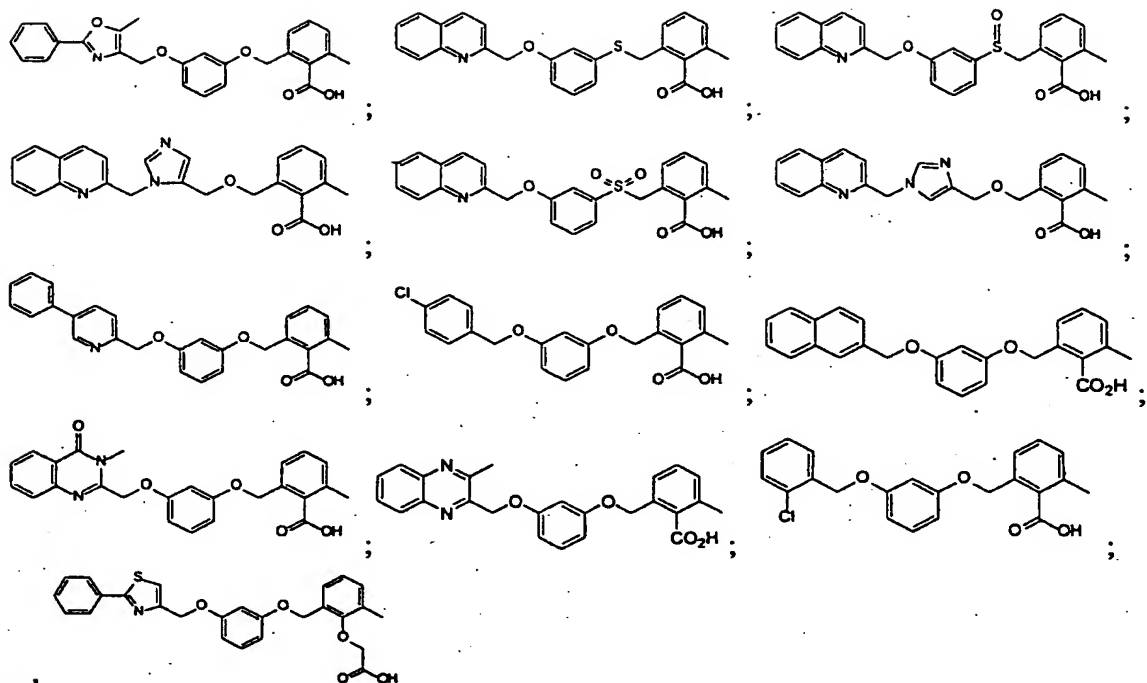
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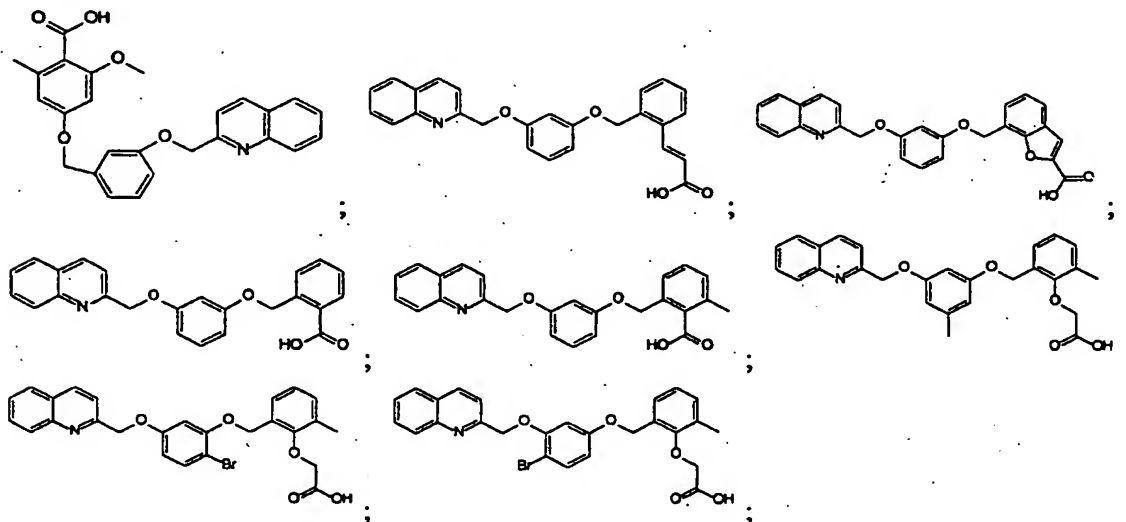






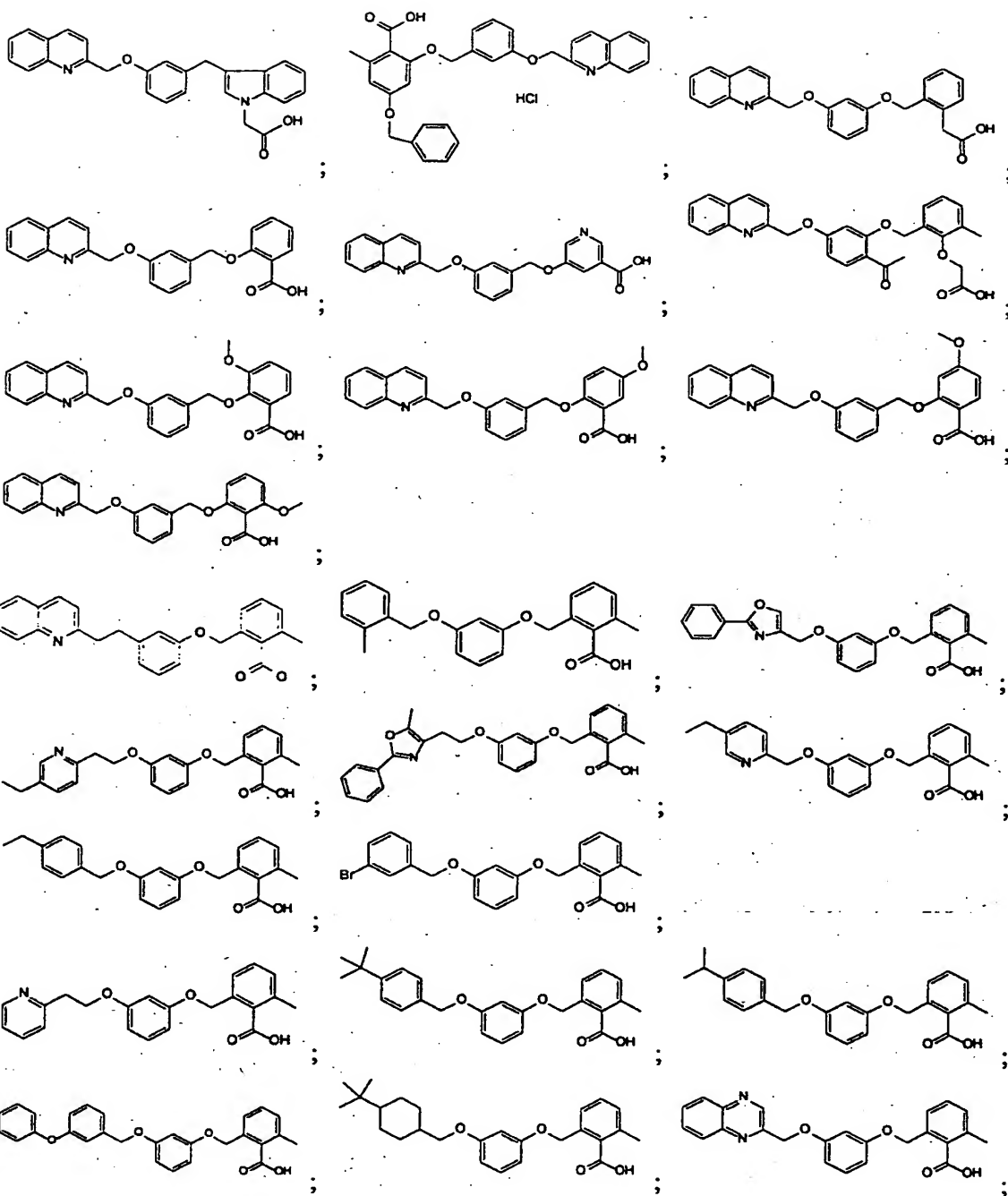
5 and

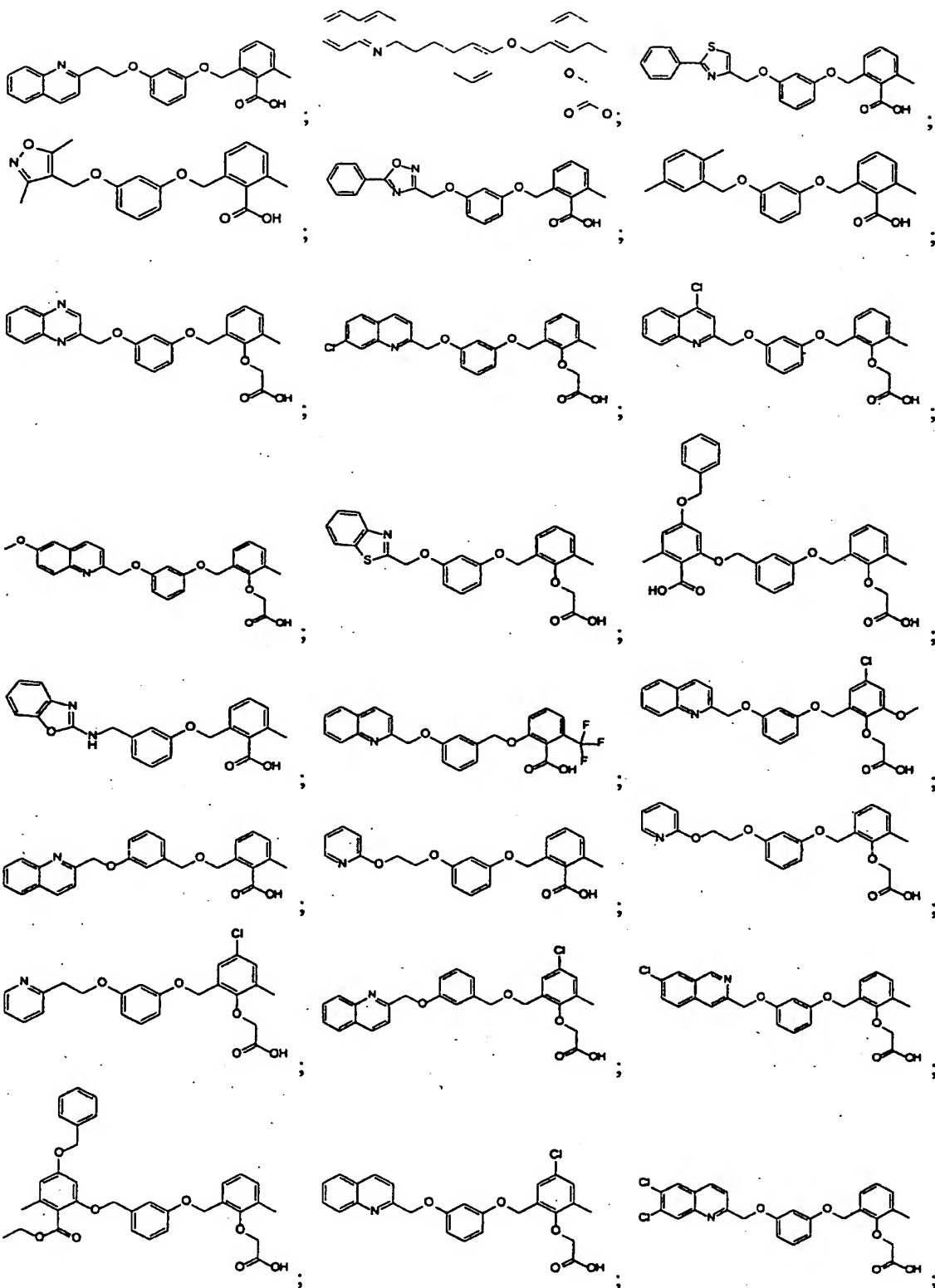
40. A compound according to claim 1 selected from the group consisting of



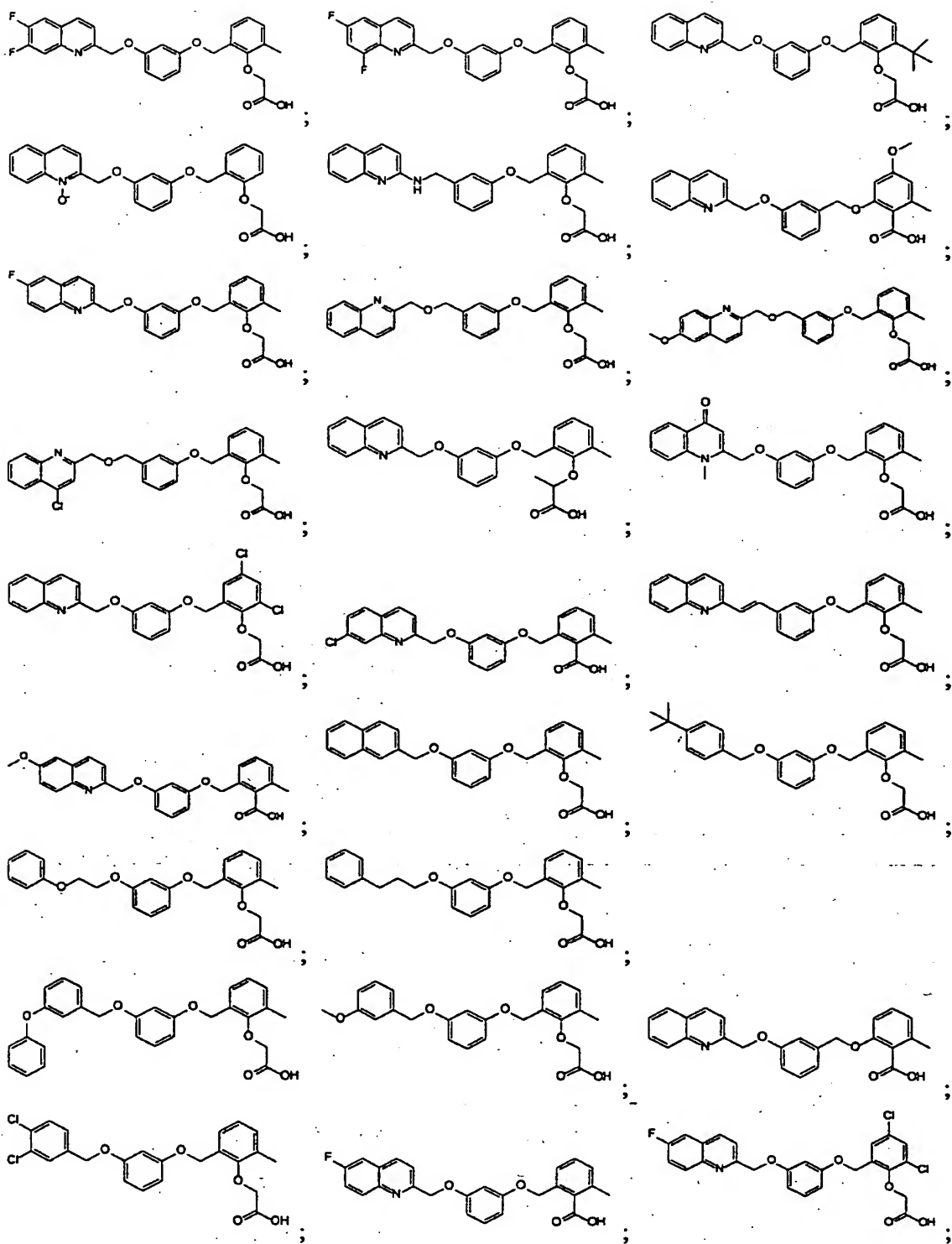
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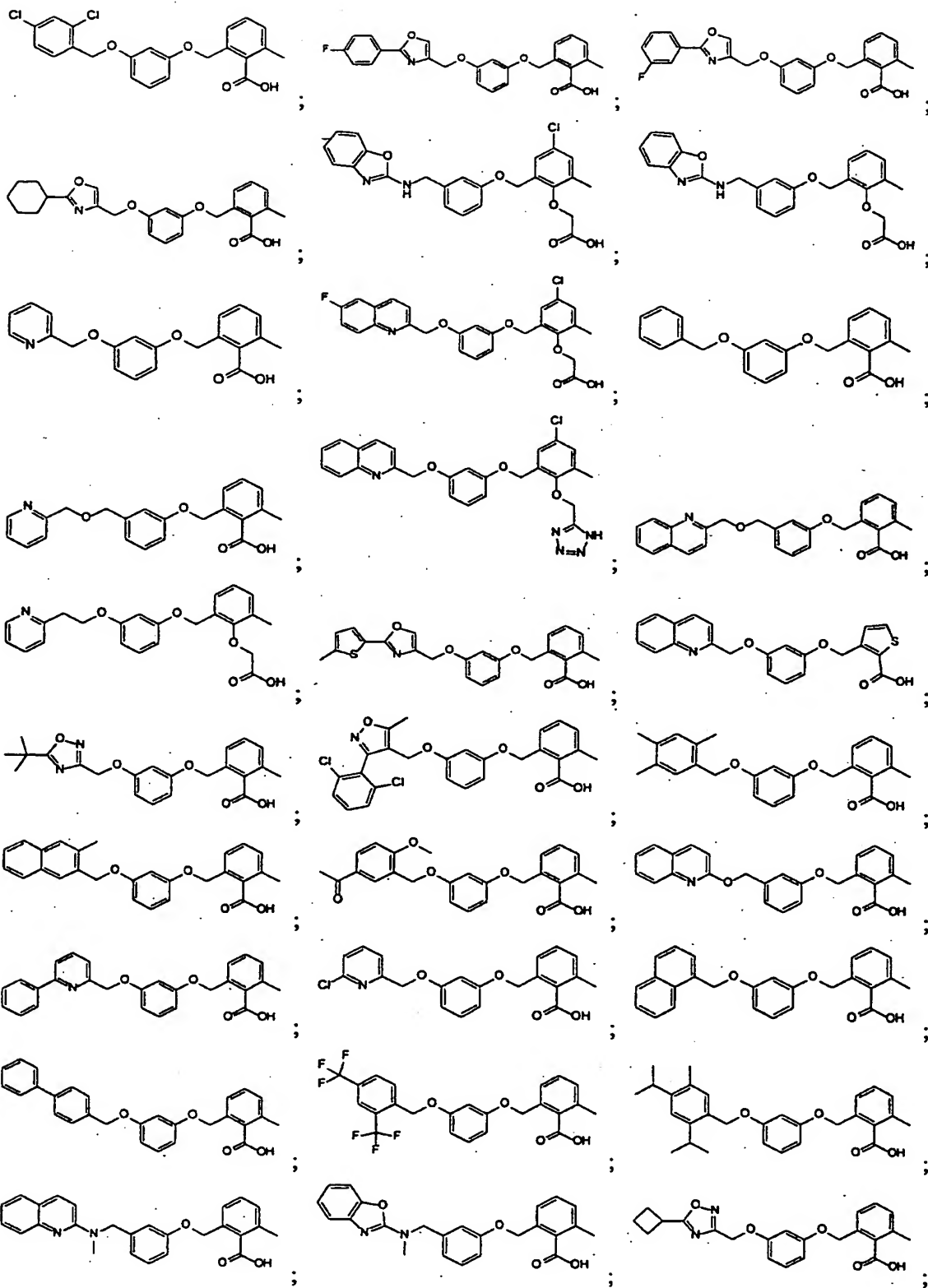




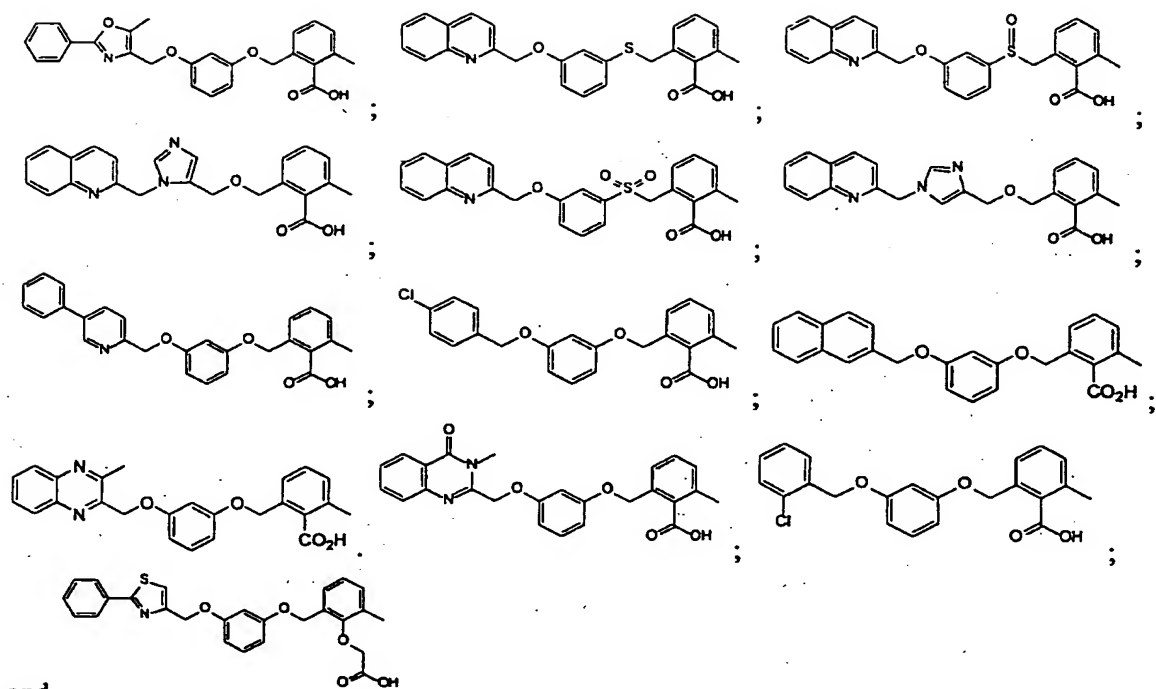
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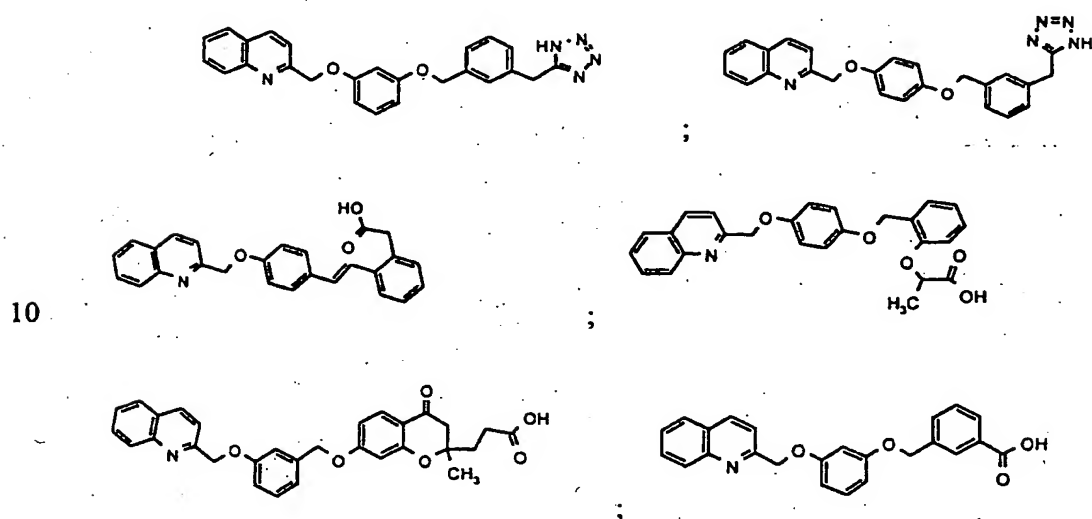
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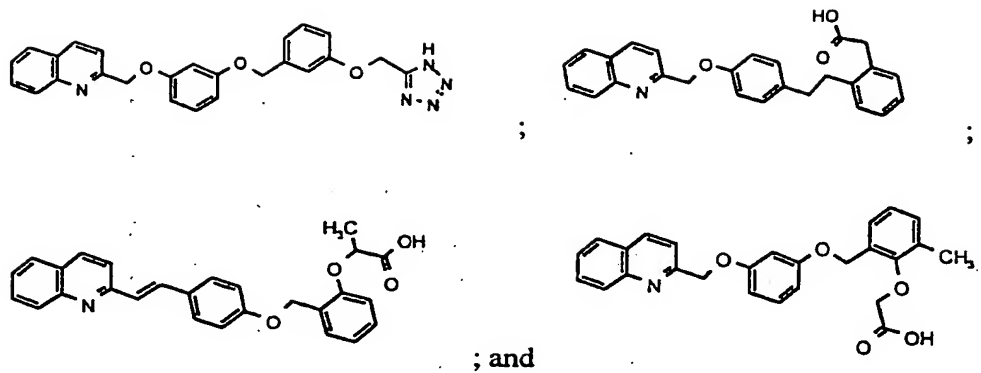
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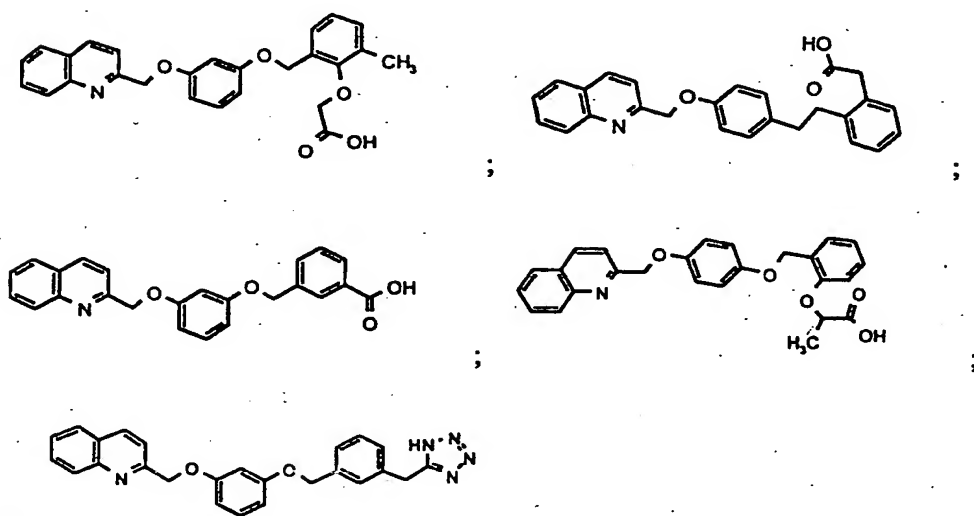
41. A compound according to claim 1 selected from the group consisting of



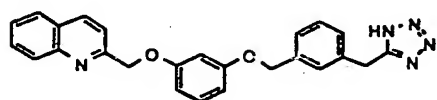
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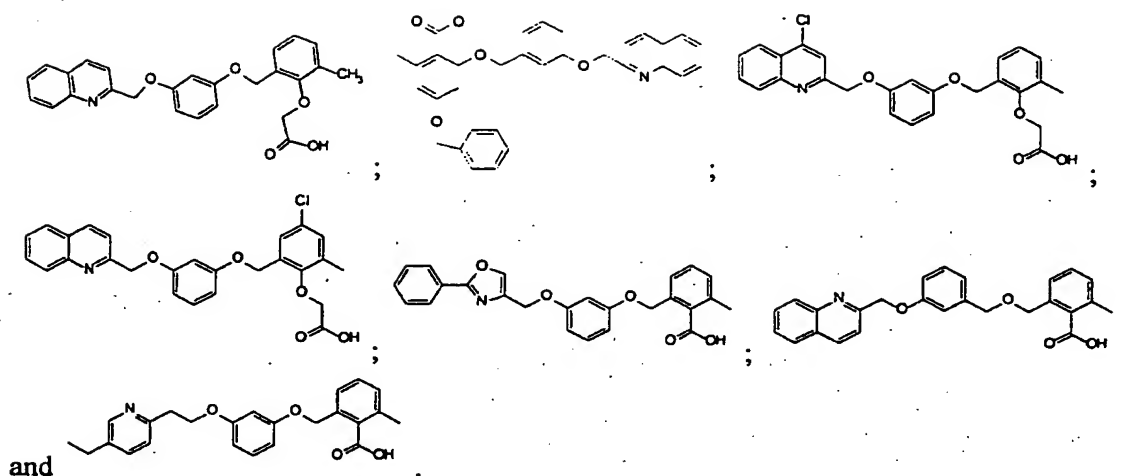
42. A compound according to claim 1 selected from the group consisting of



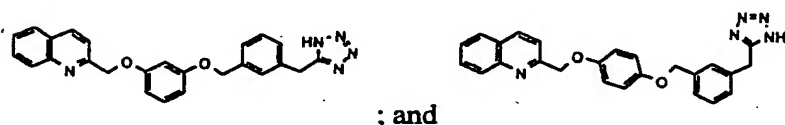
43. A compound according to claim 1 selected from the group consisting of



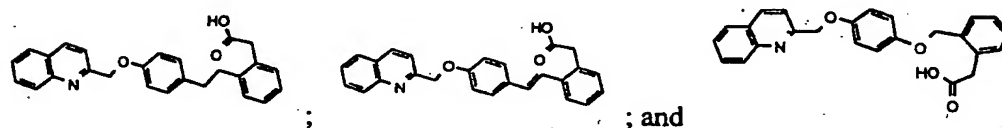
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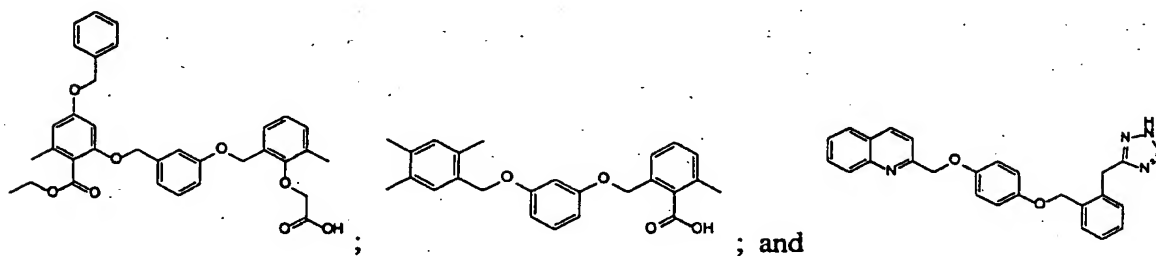
- 5 44. A compound according to claim 1 selected from the group consisting of



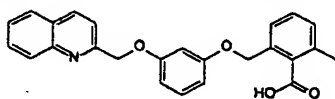
- 10 45. A compound according to claim 1 selected from the group consisting of



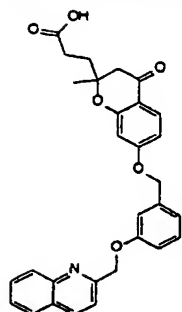
- 15 46. A compound according to claim 1 selected from the group consisting of



- 20 47. A compound according to claim 1 selected from the group consisting of



48. A compound according to claim 1 of the formula



49. A pharmaceutical composition comprising a pharmaceutically acceptable amount of the compound according to claim 1 and a pharmaceutically acceptable carrier.

50. A method of treating a patient suffering from a physiological disorder capable of being modulated by a compound according to claim 1 having PPAR ligand binding activity, comprising administering to the patient a pharmaceutically effective amount of the compound, or a pharmaceutically acceptable salt thereof.

51. A method according to claim 50 wherein the disease is associated with a physiological detrimental blood level of insulin, glucose, free fatty acids (FFA), or tricyclerides.

52. The method according to claim 51, wherein the physiological disorder is hyperglycemia.

53. The method according to claim 52, wherein the hyperglycemia is diabetes

54. The method according to claim 52, wherein the hyperglycemia is Type II diabetes.

55. The method according to claim 51, wherein the physiological disorder is

hyperinsulinism.

56. The method according to claim 55, wherein the hyperinsulinism is Syndrome X.

57. The method according to claim 51, wherein the physiological disorder is insulin resistance.

58. The method according to claim 51, wherein the physiological disorder is cardiovascular condition.

59. The method according to claim 58, wherein the cardiovascular condition is atherosclerosis.

60. The method according to claim 51, wherein the physiological disorder is hyperlipidemia.

61. The method according to claim 51, wherein the physiological disorder is hypertension.

62. The method according to claim 51, wherein the physiological disorder is an eating disorder.

63. The method according to claim 50 wherein the mediating is agonistic.

64. The method according to claim 50 wherein the mediating is antagonistic.

65. A method for mediating the activity of PPAR- γ receptor comprising contacting said PPAR- γ receptor with a compound of according to claim 1.

66. A pharmaceutical composition comprising a pharmaceutically acceptable amount of the compound according to claim 27 and a pharmaceutically acceptable carrier.

67. A method of treating a patient suffering from a physiological disorder capable of being modulated by a compound according to claim 27 having PPAR ligand binding activity, comprising administering to the patient a pharmaceutically effective amount of the compound, or a pharmaceutically acceptable salt thereof.

68. A method according to claim 67 wherein the disease is associated with a physiological detrimental blood level of insulin, glucose, free fatty acids (FFA), or tricyclerides.

69. The method according to claim 67, wherein the physiological disorder is hyperglycemia.

70. The method according to claim 69, wherein the hyperglycemia is diabetes

71. The method according to claim 69, wherein the hyperglycemia is Type II diabetes.

72. The method according to claim 67, wherein the physiological disorder is hyperinsulinism.

73. The method according to claim 72, wherein the hyperinsulinism is Syndrome X.

74. The method according to claim 67, wherein the physiological disorder is insulin resistance.

75. The method according to claim 67, wherein the physiological disorder is cardiovascular disorder.

76. The method according to claim 75, wherein the cardiovascular disorder is atherosclerosis.

77. The method according to claim 67, wherein the physiological disorder is hyperlipidemia.

78. The method according to claim 67, wherein the physiological disorder is hypertension.

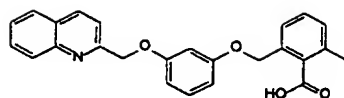
79. The method according to claim 67, wherein the physiological disorder is an eating disorder.

80. The method according to claim 67 wherein the mediating is agonistic.

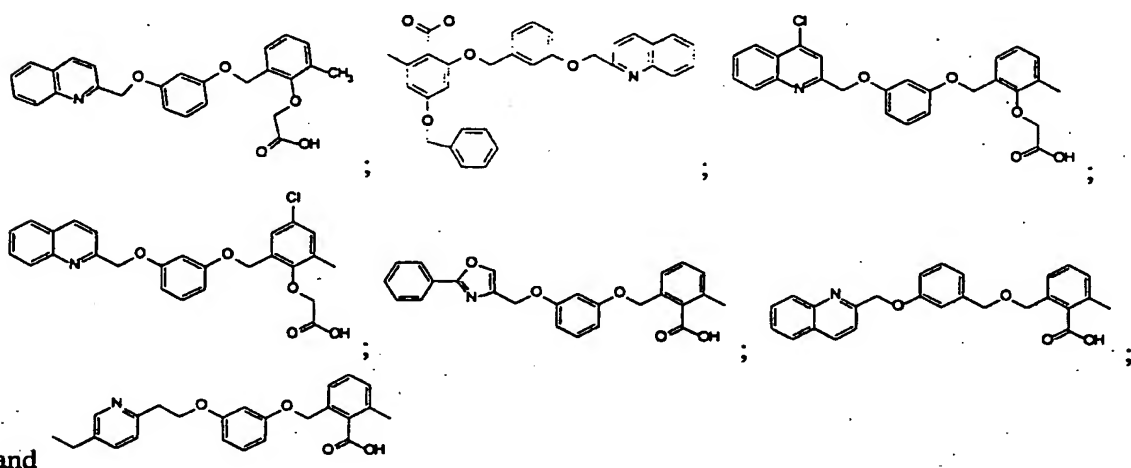
81. The method according to claim 67 wherein the mediating is antagonistic.

82. A method for mediating the activity of PPAR receptor comprising contacting said PPAR receptor with a compound of according to claim 27.

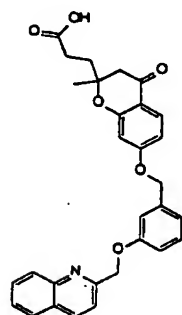
83. A method of treating a patient suffering from a physiological disorder capable of being modulated by a compound having PPAR α and PPAR γ ligand binding activity, comprising administering to the patient a pharmaceutically effective amount of the compound, or a pharmaceutically acceptable salt thereof, wherein said compound is of the formula



84. A method of treating a patient suffering from a physiological disorder capable of being modulated by a compound having PPAR α ligand binding activity, comprising administering to the patient a pharmaceutically effective amount of the compound, or a pharmaceutically acceptable salt thereof, wherein said compound is selected from the group consisting of

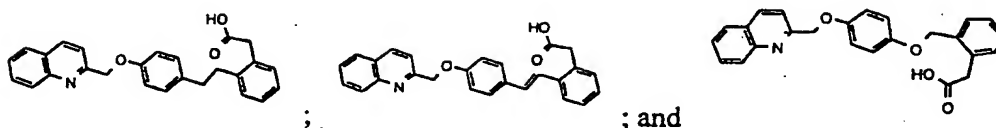


85. A method of treating a patient suffering from a physiological disorder capable of being modulated by a compound having PPAR δ ligand binding activity, comprising administering to the patient a pharmaceutically effective amount of the compound, or a pharmaceutically acceptable salt thereof, wherein said compound is of the formula:



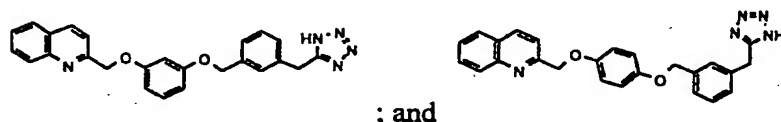
86. A method of treating a patient suffering from a physiological disorder capable of being modulated by a compound having PPAR α and PPAR δ ligand binding activity, comprising administering to the patient a pharmaceutically effective amount of the compound, or a

pharmaceutically acceptable salt thereof, wherein said compound is selected from the group consisting of:



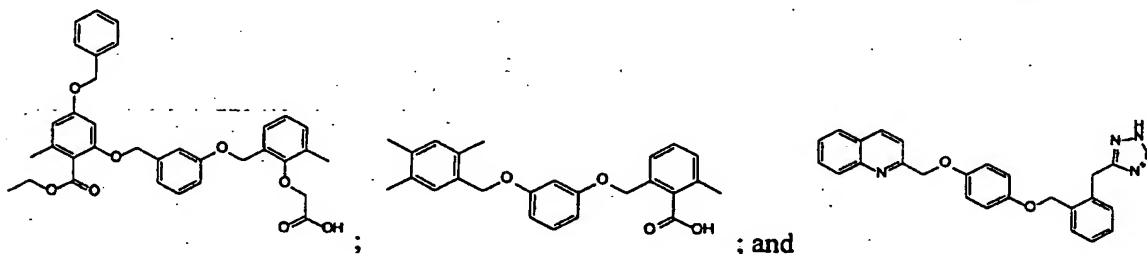
- 5 87. A method of treating a patient suffering from a physiological disorder capable of being modulated by a compound having PPAR δ and PPAR γ ligand binding activity, comprising administering to the patient a pharmaceutically effective amount of the compound, or a pharmaceutically acceptable salt thereof, wherein said compound is selected from the group consisting of:

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88. A method of treating a patient suffering from a physiological disorder capable of being modulated by a compound having PPAR γ ligand binding activity, comprising administering to the patient a pharmaceutically effective amount of the compound, or a pharmaceutically acceptable salt thereof, wherein said compound is selected from the group consisting of:

15



International Application No.

A. CLASSIFICATION OF SUBJECT MATTER

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C07D A61K A61P C07C

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

C. DOCUMENTS CONSIDERED TO BE RELEVANT

X

Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

* Special categories of cited documents :

- * later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

- Date of the actual completion of the international search

Date of mailing of the international search report

04/10/2000

Name and mailing address of the ISA

Authorized officer

Van Bijlen, H

INTERNATIONAL SEARCH REPORT

International application No
PCT/US 00/11490

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 C07D263/58 C07D215/38 C07D215/20 C07D413/04 C07D409/12 C07D213/61 C07D401/06 C07D239/74 C07D215/60 C07C63/00 C07C57/03		
According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols)		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Electronic data base consulted during the international search (name of data base and, where practical, search terms used)		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 97 24331 A (LABORATORIOS MENARINI S.A.) 10 July 1997 (1997-07-10) * complete document *	1,49
X	WO 99 07357 A (ONO PHARMACEUTICAL CO., LTD.) 18 February 1999 (1999-02-18) * complete document *	1,49,66,82
X	WO 99 08501 A (DR. REDDY'S RESEARCH FOUNDATION) 25 February 1999 (1999-02-25) * complete document *	1,49,66,82
X	WO 89 04303 A (RORER INTERNATIONAL (OVERSEAS) INC.) 18 May 1989 (1989-05-18) * complete document *	1,49
-/--		
<div style="display: flex; justify-content: space-between;"> <input checked="" type="checkbox"/> Further documents are listed in the continuation of box C. <input checked="" type="checkbox"/> Patent family members are listed in annex. </div>		
<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p>* Special categories of cited documents :</p> <p>"A" document defining the general state of the art which is not considered to be of particular relevance</p> <p>"E" earlier document but published on or after the international filing date</p> <p>"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)</p> <p>"O" document referring to an oral disclosure, use, exhibition or other means</p> <p>"P" document published prior to the international filing date but later than the priority date claimed</p> </div> <div style="width: 45%;"> <p>"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention</p> <p>"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone</p> <p>"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.</p> <p>"&" document member of the same patent family</p> </div> </div>		
Date of the actual completion of the international search <div style="text-align: center; font-weight: bold;">21 September 2000</div>		Date of mailing of the international search report
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016		Authorized officer <div style="text-align: center; font-weight: bold;">Van Bijlen, H</div>

INTERNATIONAL SEARCH REPORT

International Application No
PCT/US 00/11490

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
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X	WO 89 12629 A (RORER INTERNATIONAL (OVERSEAS) INC.) 28 December 1989 (1989-12-28) * complete document *	1,49
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Continuation of Box I.2

Claims Nos.: 1-88 (partially)

The initial phase of the search revealed a very large number of documents relevant to the issue of novelty. So many documents were retrieved that it is impossible to determine which parts of the claim(s) may be said to define subject-matter for which protection might legitimately be sought (Article 6 PCT).

For these reasons it appears impossible to execute a meaningful search and/or to issue a complete search report over the whole breadth of the above mentioned claims.

The applicant's attention is drawn to the fact that claims, or parts of claims, relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure.

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